

**1997/1998 - OYSTER DATA REPORT**

**Series No. 3**

**96/97 OYSTER PRODUCTION AND DENSITIES AND STOCK  
ASSESSMENT FOR THE 1997-98 OYSTER SEASON ON LOUISIANA  
PUBLIC OYSTER GROUNDS.**

**PREPARED BY:**

**RONALD J. DUGAS  
ROBERT L. ANCELET**

**LOUISIANA DEPARTMENT OF WILDLIFE AND FISHERIES**

**AUGUST 1997**

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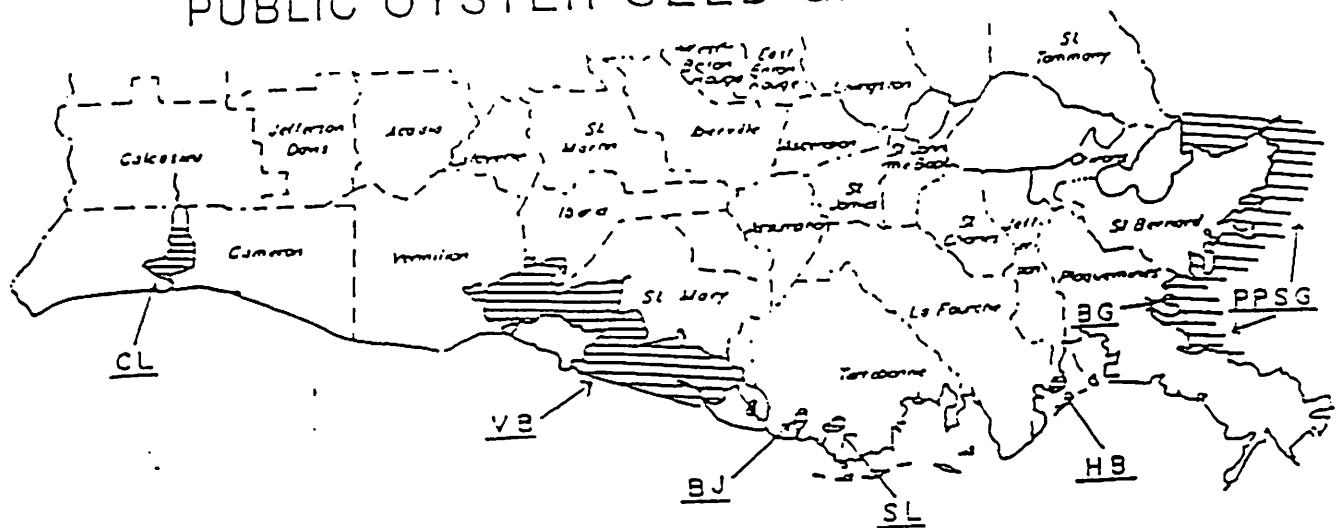
**AUGUST 1997**

## INTRODUCTION

In Louisiana, there are almost 2 million acres of public reef/seed grounds, although only a relatively small portion of this area has the hard bottom substrate necessary for the existence of oysters. These public reefs are opened each year in the fall and winter both to lessees who may wish to transplant oysters to their leases and to other fishermen who may wish to harvest oysters and bring them directly to market. Each year in the summer biological samples (Figure 3) are taken on these reefs and the results used to make recommendations as to opening and closing of areas to harvest and to advise the oyster industry on the availability of oysters on these reefs.



## PUBLIC OYSTER SEED GROUNDS

LEGEND

- PPSG—PRIMARY OYSTER SEED GROUNDS  
 BG—BAY GARDENE OYSTER SEED RESERVATION  
 HB—HACKBERRY BAY OYSTER SEED RESERVATION  
 SL—SISTER LAKE OYSTER SEED RESERVATION  
 BJ—BAY JUNG OYSTER SEED RESERVATION  
 VB—VERMILION BAY OYSTER SEED GROUNDS  
 CL—CALCASIEU LAKE PUBLIC TONGING GROUNDS

Figure 1. Louisiana Public Oyster Seed Grounds, Oyster Seed Reservation and Public Tonging Grounds.

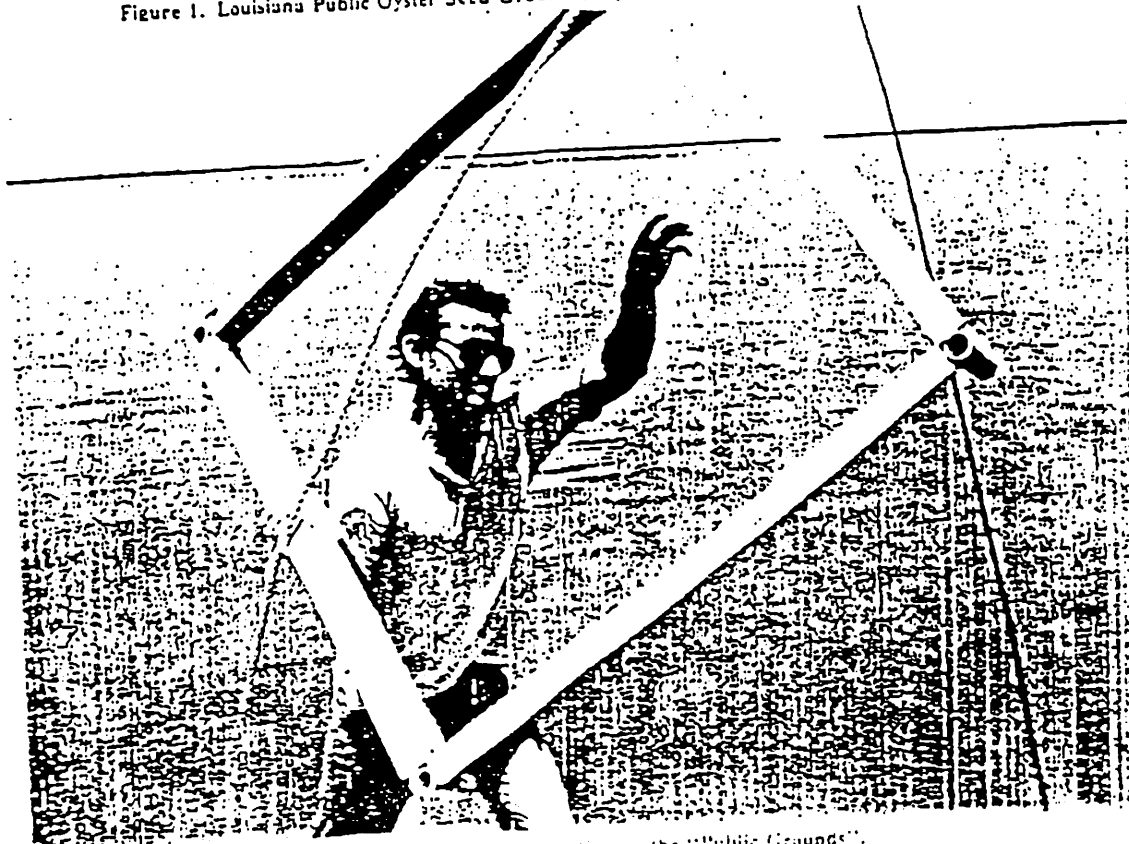
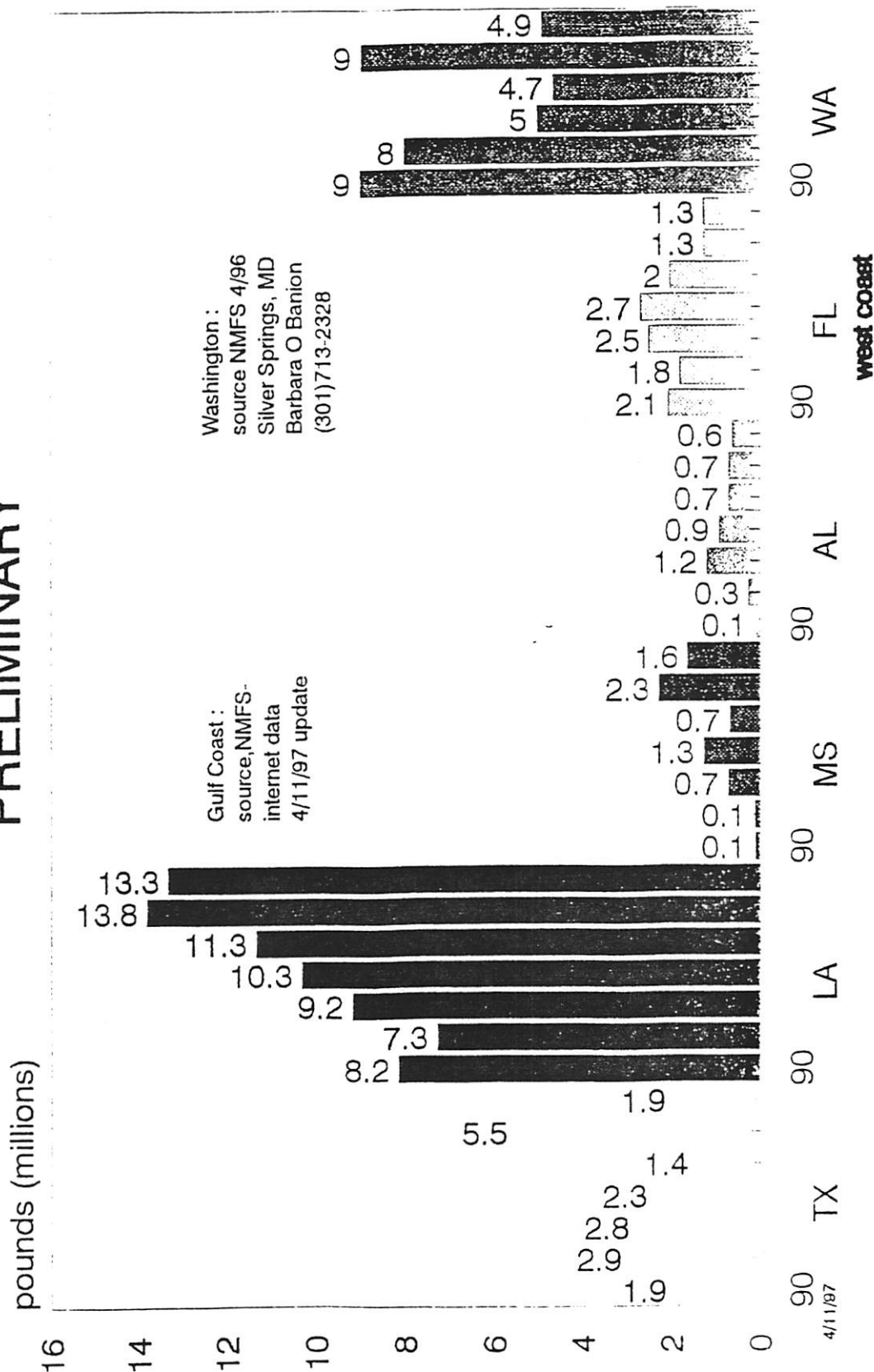


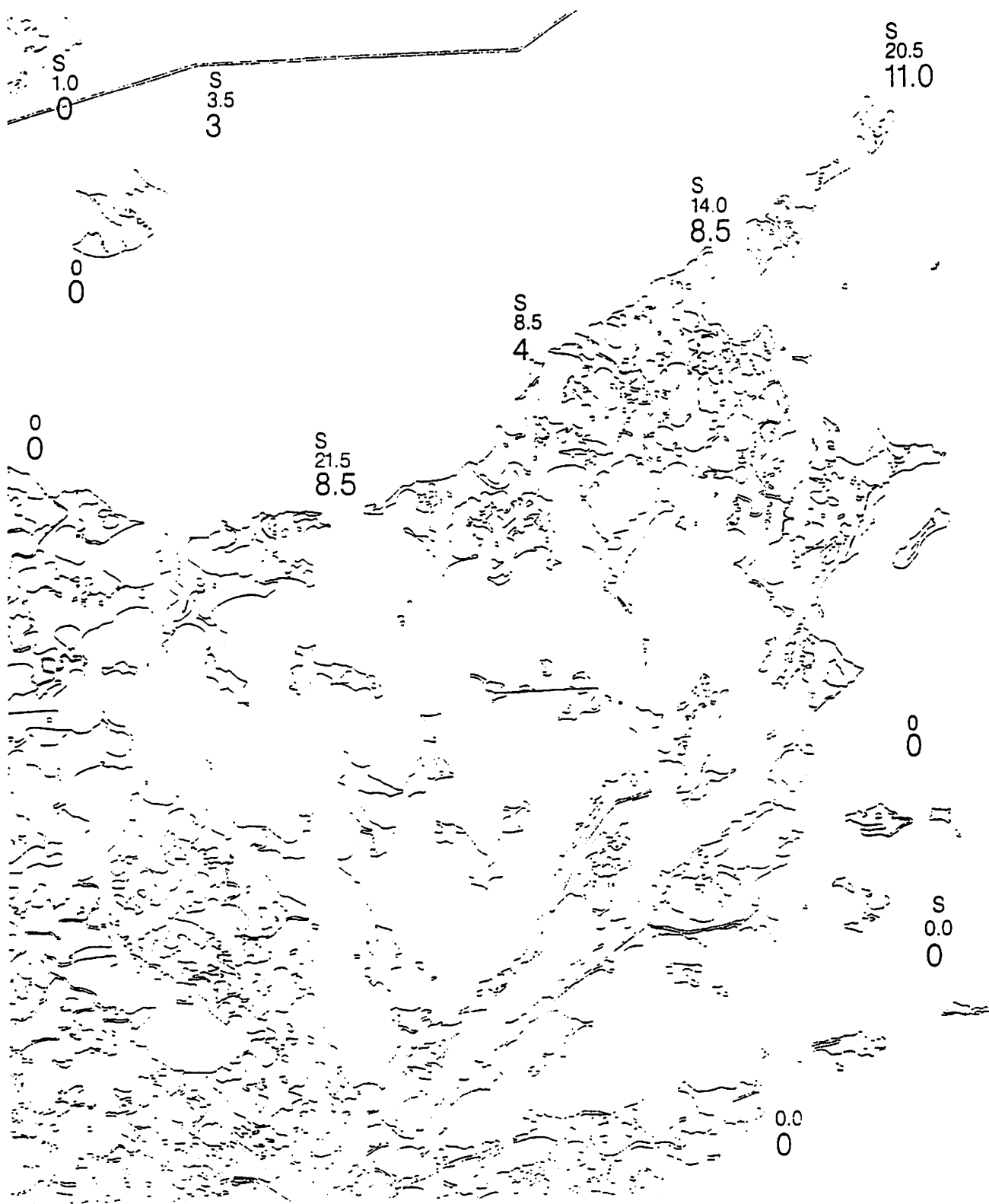
Figure 2. Meter square sampling for oyster densities on the "Public Grounds".

# **OYSTER LANDINGS** **GULF STATES and WASHINGTON STATE** 1990-1996

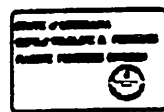
## **PRELIMINARY**



**1996/97 M<sup>2</sup> SAMPLES**  
**AND**  
**STOCK ASSESSMENT**



AREA I  
M<sup>2</sup> 1996  
S=SPAT  
SEED  
SACK  
M=MUSSELS

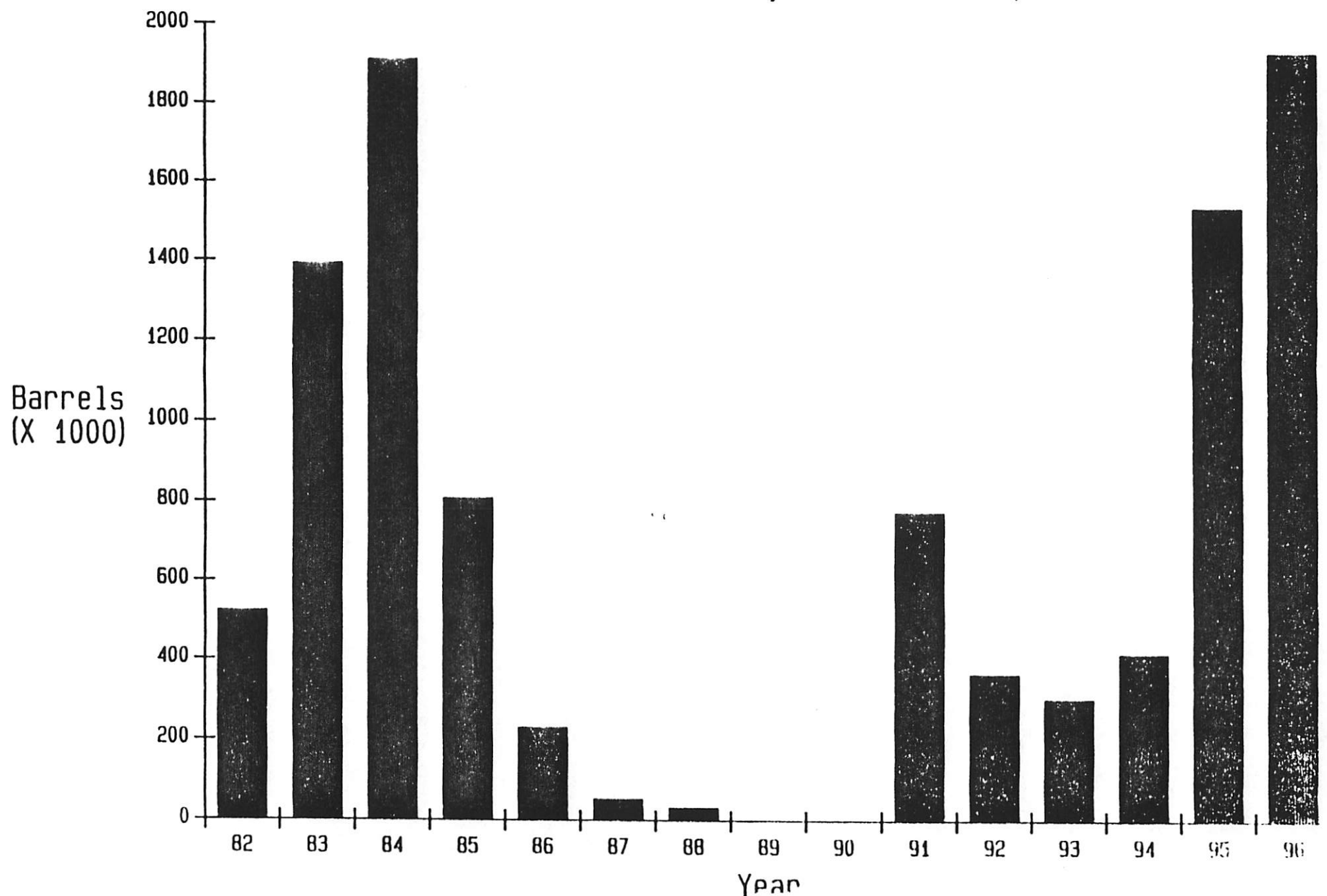


1996 COASTAL STUDY AREA I OYSTER AVAILABILITY

Meter <sup>2</sup> Station	Reef Acreage	#Meter <sup>2</sup>	#Seed Oyster	#Sack Oyster	BBLs Seed	BBLs Sack
001	376.07	1,521,955.29	0	0	0	0
002			1	0		
003			3.5	3		
004			0	0		
002-004	6850.17	27,722,638.00	4.5	3	172,989	231,022
005	3058.65	12,378,356.55	21.5	8.5	350,177	292,267
006			14	8.5		
007			20.5	11		
008			N/A	N/A		
011			8.5	4		
006-011	1801.76	7,291,722.72	43	23.5	412,558	475,987
009			0	0	0	0
010			0	0	0	0
009-010	4155.70	16,818,117.90	0	0	0	0
Lake Pont.	Seabrook 631.27	2,554,749.69	N/A	N/A	N/A	N/A
EL01	2691.84	10,893,876.48	0	0	0	0
					935,724	999,276

Bobl/oysavail.96

Oysters Available on the Public Grounds  
in Coastal Study Area I  
(Seed and Sack Oysters Combined)



S  
23.0  
15

S  
45  
19

S  
35  
6  
M

S  
12  
3

S  
124  
29

S  
40  
21

S  
69  
12

S  
149  
10

S  
41  
17

S  
83  
39

S  
118  
39

S  
6  
1

S  
30  
15

S  
50  
36

S  
31  
21

S  
76  
28

S  
55  
8

AREA 2  
M 1996  
S=SPAT  
SEED  
**SACK**  
M=MUSSELS

S  
34  
13

S  
50  
16  
M

S  
19  
12

0  
0

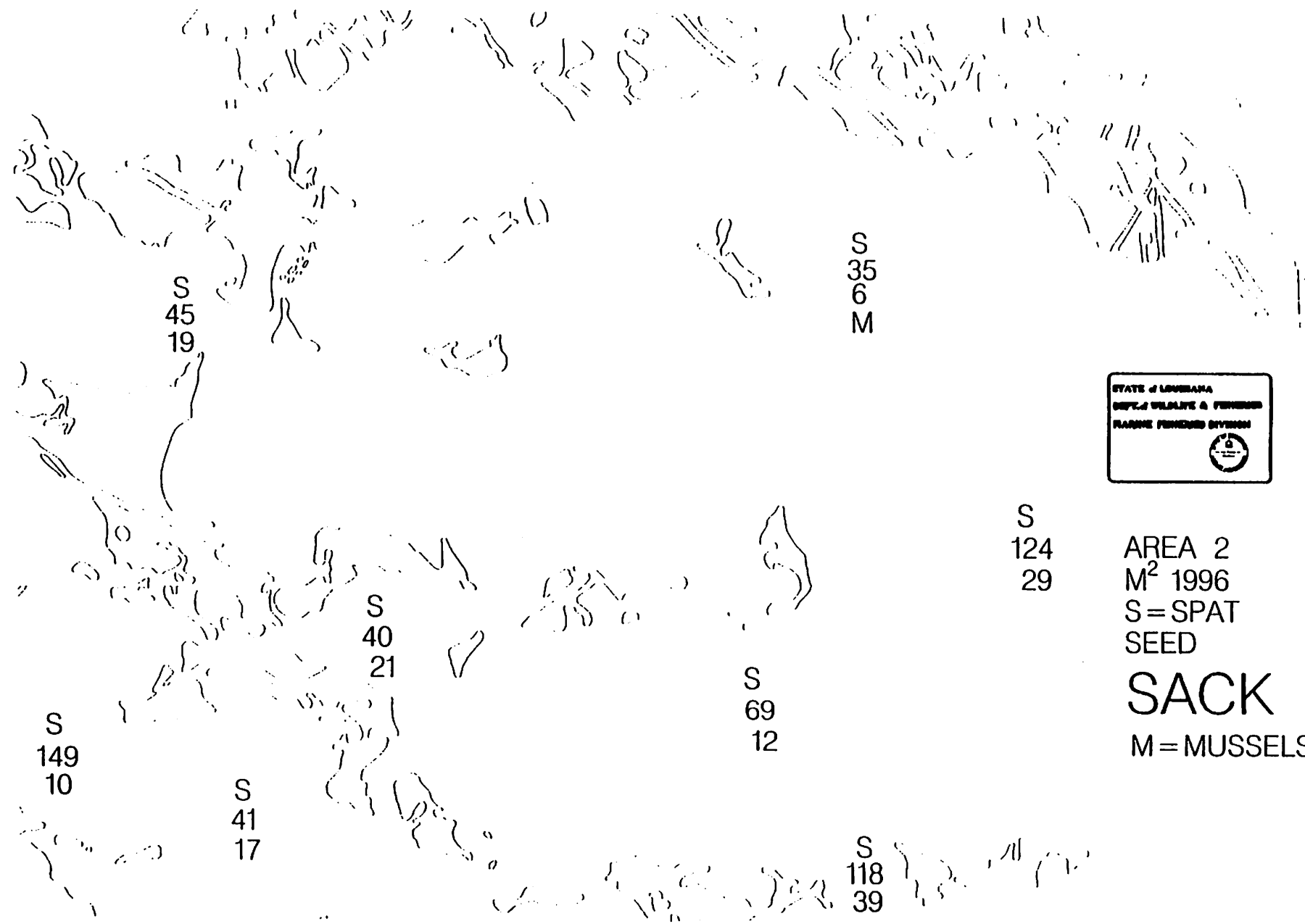
22  
6

4  
0

18  
23

2  
2

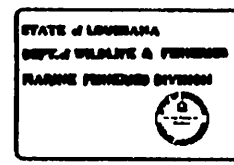
0  
0



S  
23.0  
15

S  
12  
3

S  
6  
1



AREA 2  
M<sup>2</sup> 1996  
S = SPAT  
SEED  
SACK  
M = MUSSELS



S  
83  
39

S  
30  
15

S  
50  
36

S  
31  
21

S  
76  
28

S  
55  
8

S  
34  
13

S  
19  
12

S  
50  
16  
M

22  
6

4  
0

0  
0

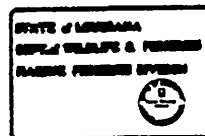
18  
23

2  
2

AREA 2  
M<sup>2</sup> 1996  
S = SPAT  
SEED

SACK

M = MUSSELS



COASTAL STUDY AREA II  
1996

Meter <sup>2</sup> Station	Grids	Acres	Meter <sup>2</sup>	# Seed Oys	# Sack Oys	BBLS Seed	BBLS Sack
1	1,2,3,4,8,9, 10	506	2,047,782	35.33	5.67	100,484	32,253
2	7,6,5,11, 12	59	283,773	45	19.33	17,736	15,237
3	13,14,15	896	3,626,112	2.67	2.67	13,447	26,894
5	17,18,25,24	118	477,546	40.33	21.33	26,749	28,295
6	20,21,16	716	2,897,652	124	28.67	499,040	230,779
7	19,26,27	301	1,218,147	69	12.33	150,577	41,722
8	31,36,32	501	2,027,547	83.33	39.33	234,660	221,510
9	33,34,35	461	1,865,667	118.33	39.33	234,660	221,510
10	40,44	145	586,815	30	15	24,451	24,451
11	42,43,46	339	1,371,933	76.33	27.67	145,444	105,448
12	47	425	437,076	54.67	8.33	33,187	10,113
13	50,51	109	441,123	34.33	12.67	21,033	15,525
14	48,49	7	28,329	49.67	15.67	1,954	1,233
16	62,63,64	174	704,178	18	22.67	17,604	44,344
17	52,53,54,55, 59,60	659	2,666,973	0	0	0	0
19	65,66,67,68	937	781,071	1.33	1.33	1,443	2,886
20	56,58	293	1,185,771	22.33	6.33	36,775	20,850
21	37,38,41	659	2,666,973	50.33	36.33	186,429	269,142
22	39	122	493,734	31.33	21	21,484	28,801
23	30,23	28	113,316	41	16.67	6,453	5,247
24	22,29	69	279,243	149	9.67	57,788	7,501
4	Horseshoe	315	1,274,805	12.33	3	21,831	10,623
15	Outside Telegraph	127	513,969	19	12	13,563	17,132
18	Outside Pelican	782	3,164,754	3.67	.33	16,131	2,901
26	SAME AS #4						
25	Battledore	1,419	5,742,693	0	0	0	0
27	L. Fortuna	4,288	17,353,536	22.67	15	546,395	723,063
28	Wreck	2,276	9,210,972	5.67	1	72,536	25,586
					Total	2,539,973	2,056,498

500: 90C vs raw

4,596,471

**1996 OYSTER AVAILABILITY  
1994 COASTAL STUDY AREA II SHELLPLANTS**

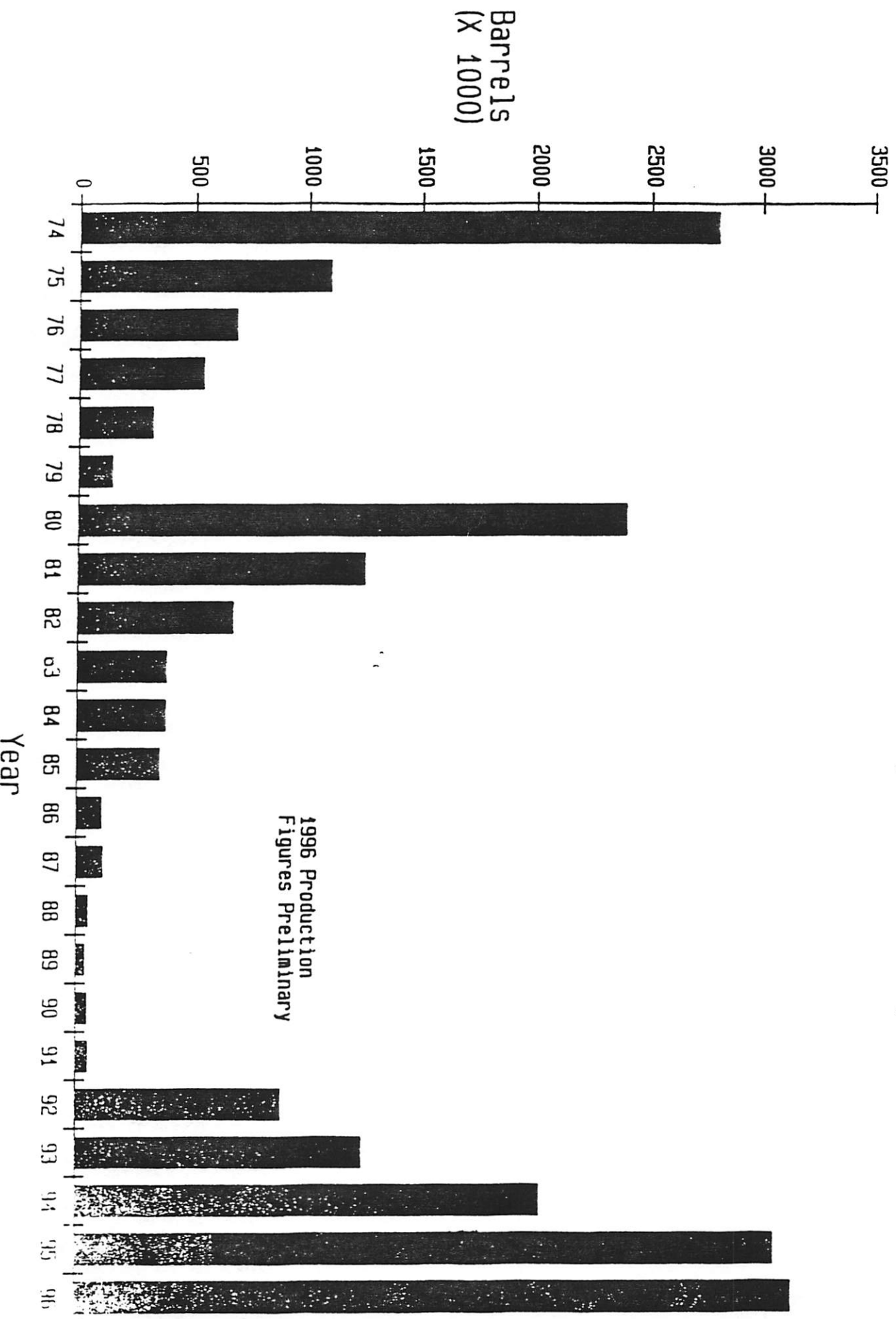
**Seed Oysters**

Shellplant	Acres	#Oysters	Barrels Seed
Lonesome Is.	708	124	493,464
Bay Crab	137	83.33	64,169

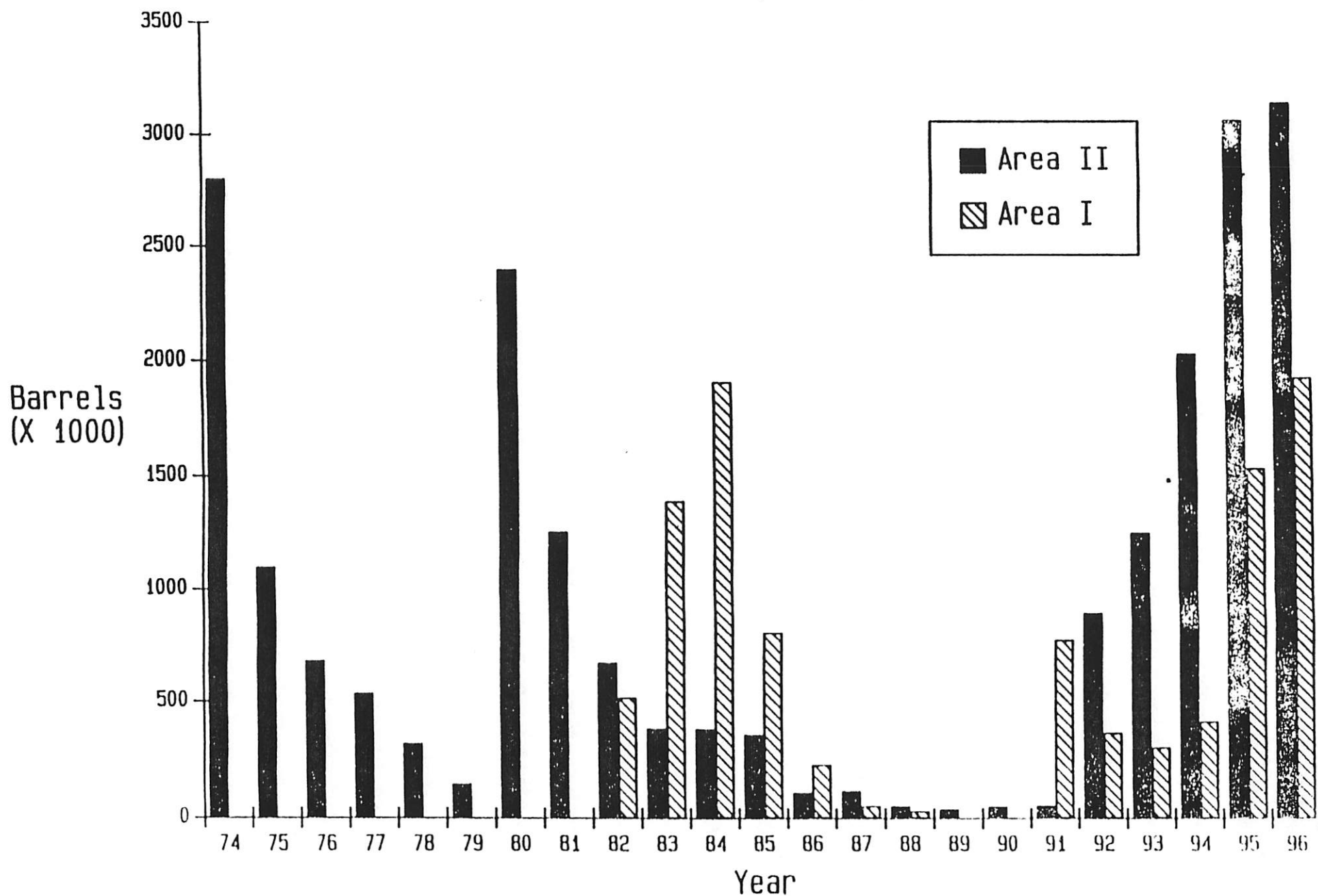
**Sack Oysters**

Shellplant	Acres	#Oysters	Barrels Sack
Lonesome Is.	708	28.67	228,187
Bay Crab	137	39.33	60,572

# Oysters Available on the Public Grounds in Coastal Study Area II (Seed and Sack Oysters Combined)



Oysters Available on the Public Grounds  
East of the Mississippi River  
(Seed and Sack Oysters Combined)



HACKBERRY BAY

S  
20.0  
2.0

AREA 3

M<sup>2</sup> 1996

S=SPAT

SEED

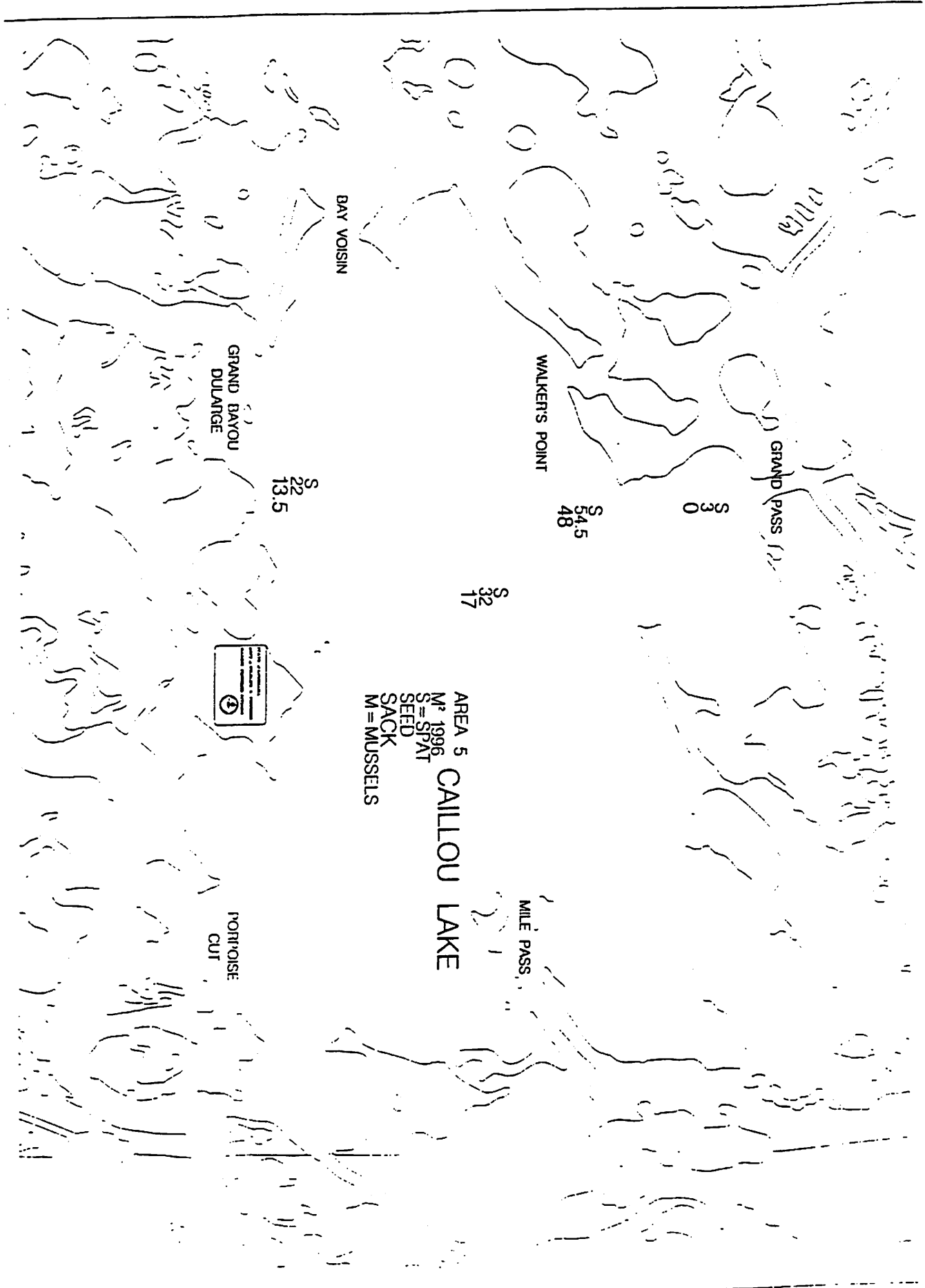
SACK

M=MUSSELS

7.0  
1.0



mm		work group		0.4		5.9		10-14		15-19		20-24		25-29		30-34		35-39		40-44		45-49		50-54		55-59		60-64		65-69		70-74		75-79		80-84		85-89		90-94		95-99	
sub totals		ave		tol		tol		ave		tol		tol		ave		tol		tol		ave		tol		tol		ave		tol		tol		ave		tol		tol		ave		tol		tol	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1			
160		197		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1			
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
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158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
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158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
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157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
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157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
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158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
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158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
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158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
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158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
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158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1	
157		475.76		538.01		179.3367		141.12		531.19		177.0633		197.01		22		24		86		28.66667		2		Bahamian Line		3		Mixed		2		3		1		1		1		1	
158.76		157		475.76		538.01		144		197.01		23		29		96		32		22		86		28.66667		2		Bahamian Line		3		Mixed		2		3</							



AREA 5  
M<sup>1</sup> 1996  
S = SPAT  
SEED  
SACK  
M = MUSSELS



PORTPOISE  
CUT

GRAND BAYOU  
DULANGE

WALKERT'S POINT

GRAND PASS

MILE PASS

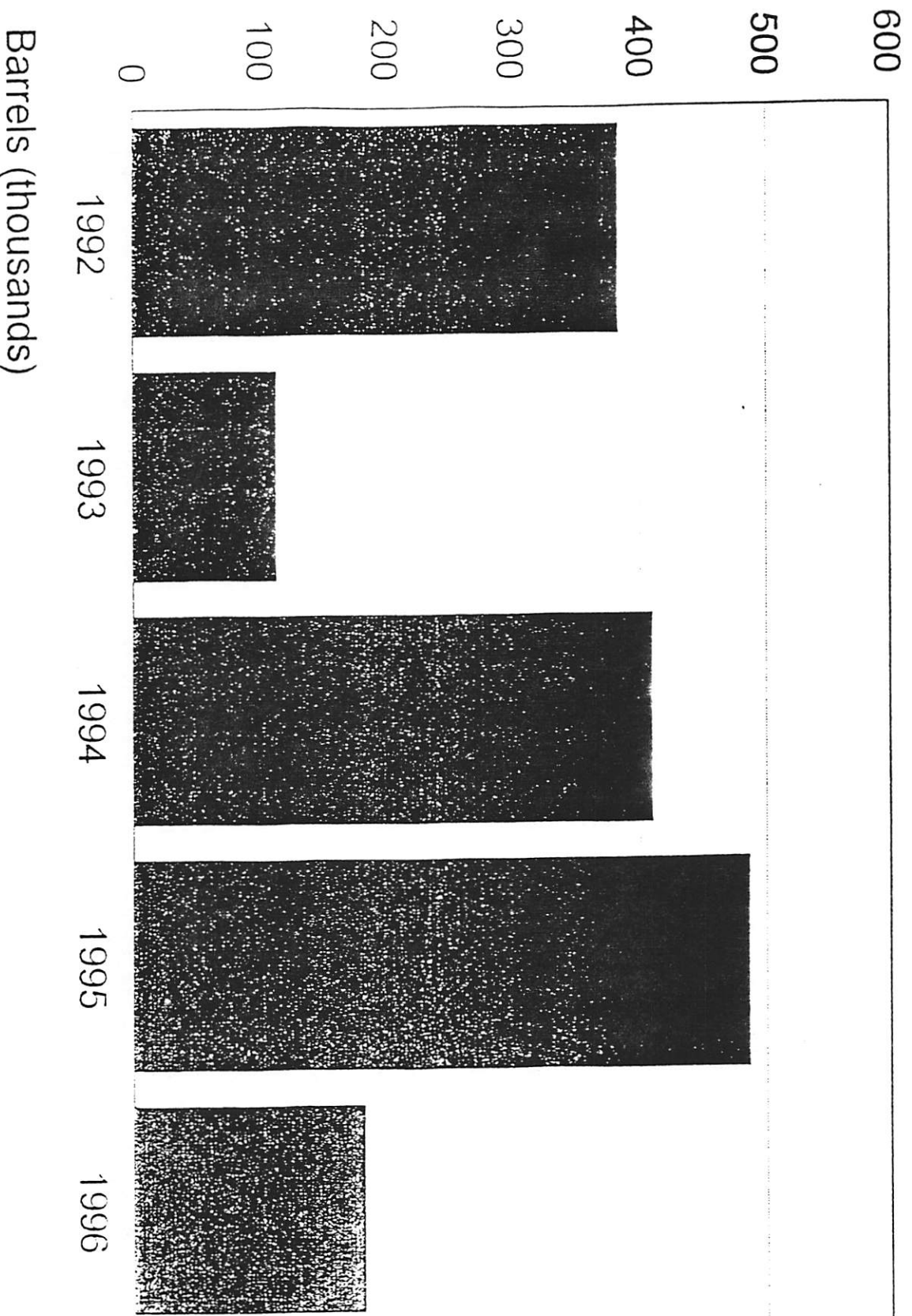
BAY VOISIN

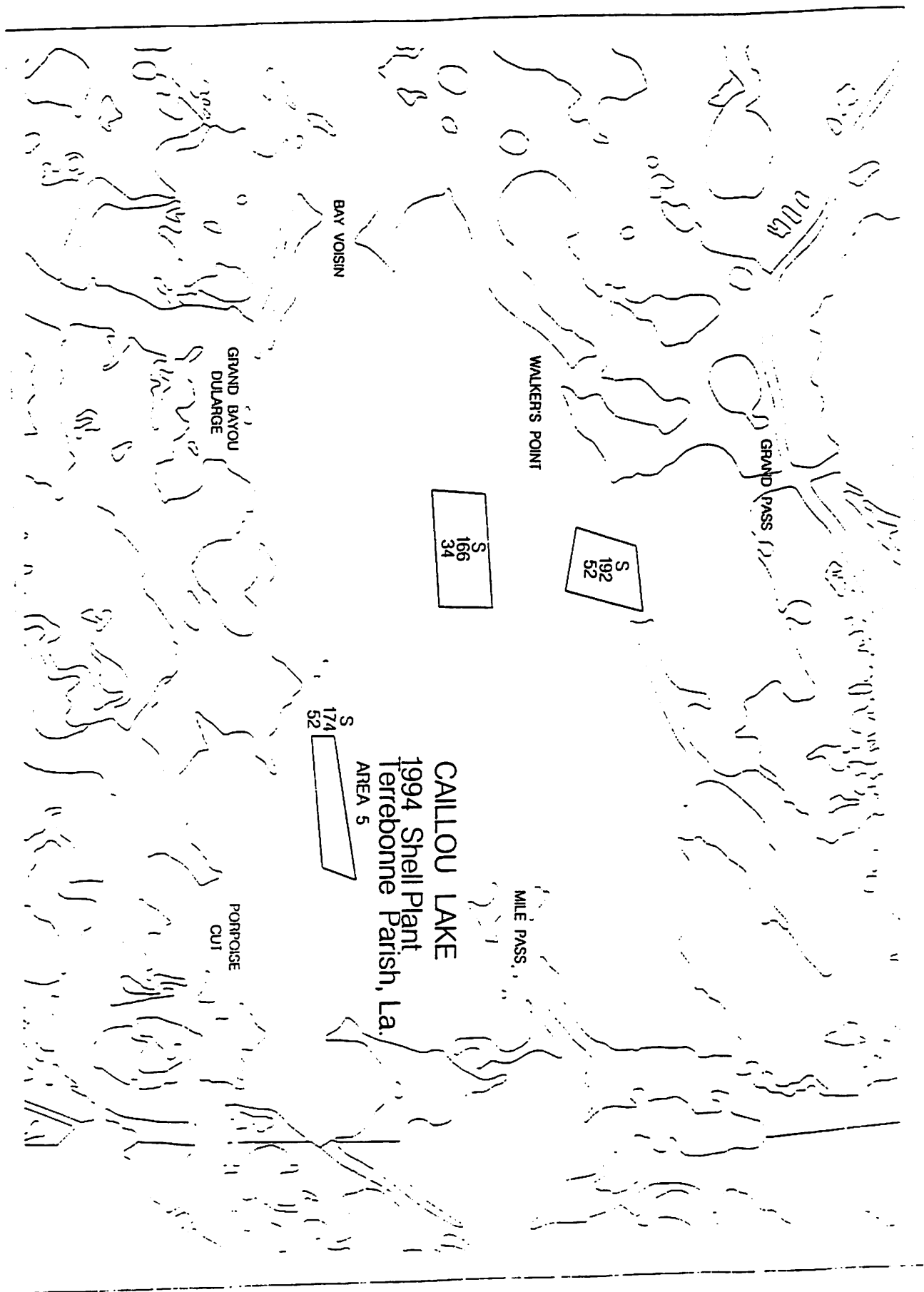


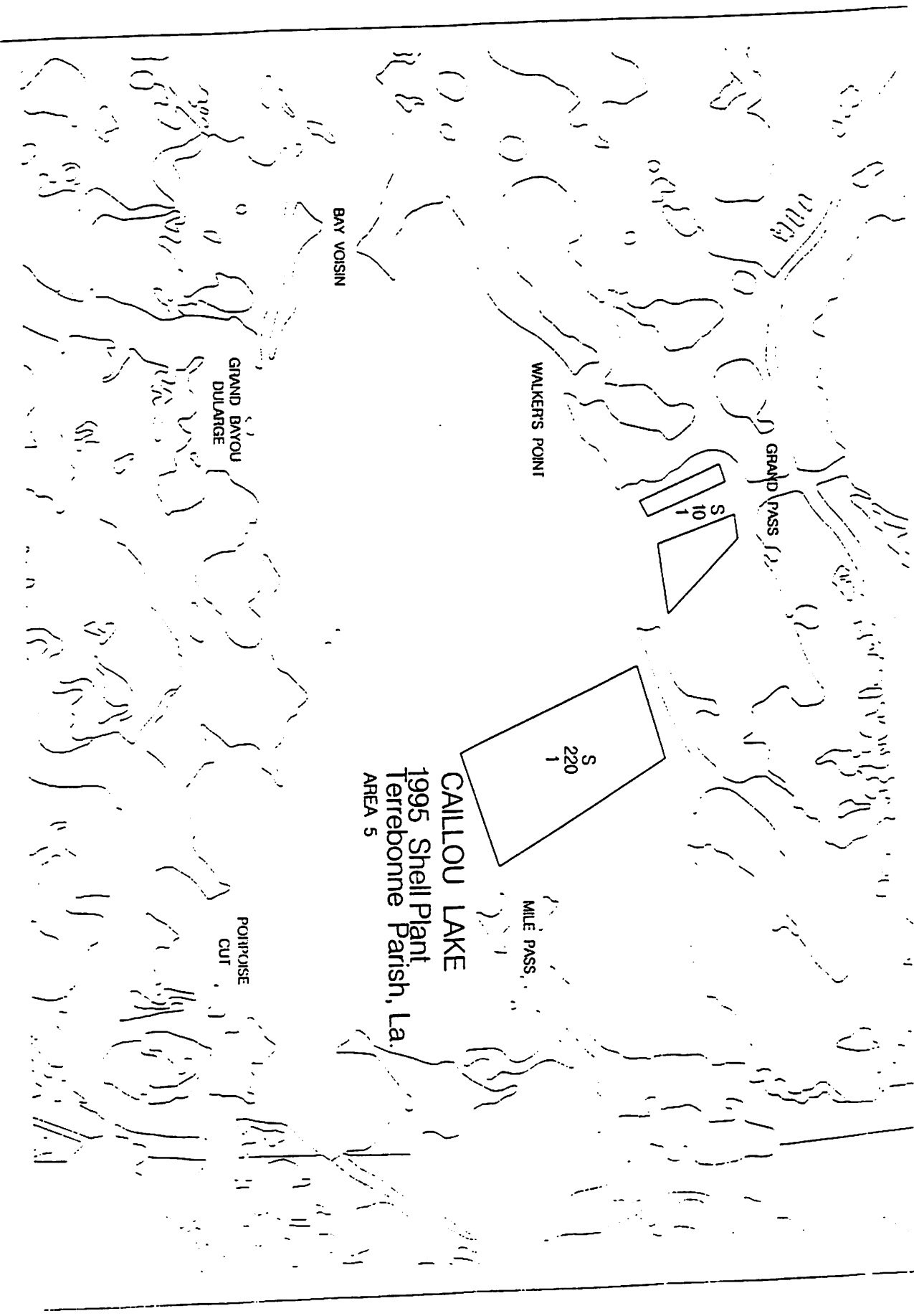
# OYSTER AVAILABILITY

(without shellfish)

## SISTER LAKE







## 1996 SISTER LAKE OYSTER AVAILABILITY

METER <sup>2</sup> STATION	REEF ACREAGE	# METER <sup>2</sup>	# SEED OYS.	# SACK OYS.	BBLS SEED	BBLS SACK
200	221.58	896,734.26	3	0	3,736	0
202	81.93	331,570.71	54.5	48	25,098	44,209
207	185.72	751,608.84	32	17	33,405	35,493
203	151.31	612,352	22	13.5	18,711	22,963
TOTALS					80,950	102,665

Bob#1/sslak96.raw

**1996 OYSTER AVAILABILITY  
1994 COASTAL STUDY AREA V SHELLPLANTS**

**Seed Oysters**

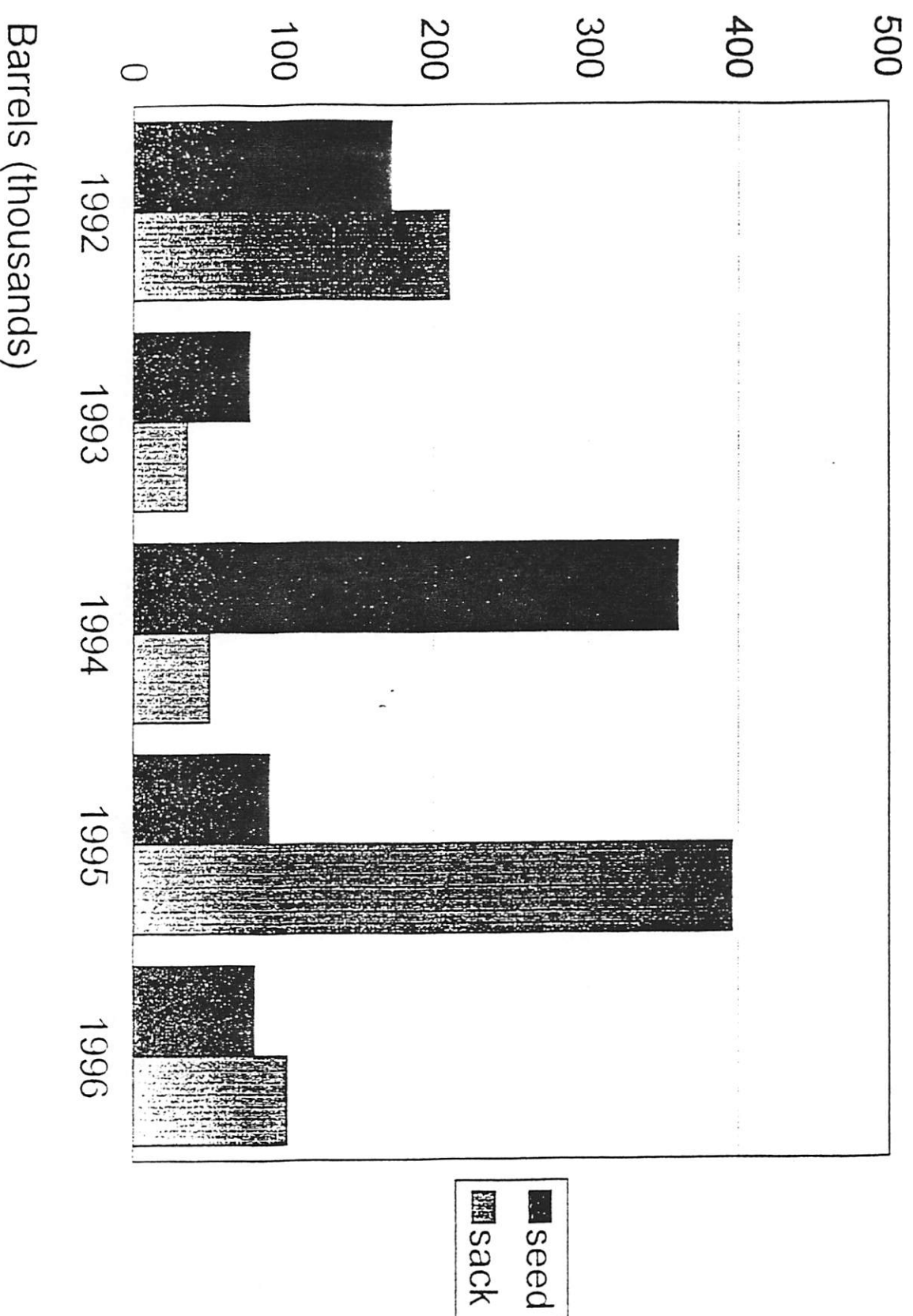
Shellplant	Acres	# Oysters	Barrels Seed
North	96	192	103,603
Mid	129	166.5	120,727
South	81	174	79,220

**Sack Oysters**

Shellplant	Acres	# Oysters	Barrels Sack
North	96	52	56,118
Mid	129	34.5	50,031
South	81	52	47,350

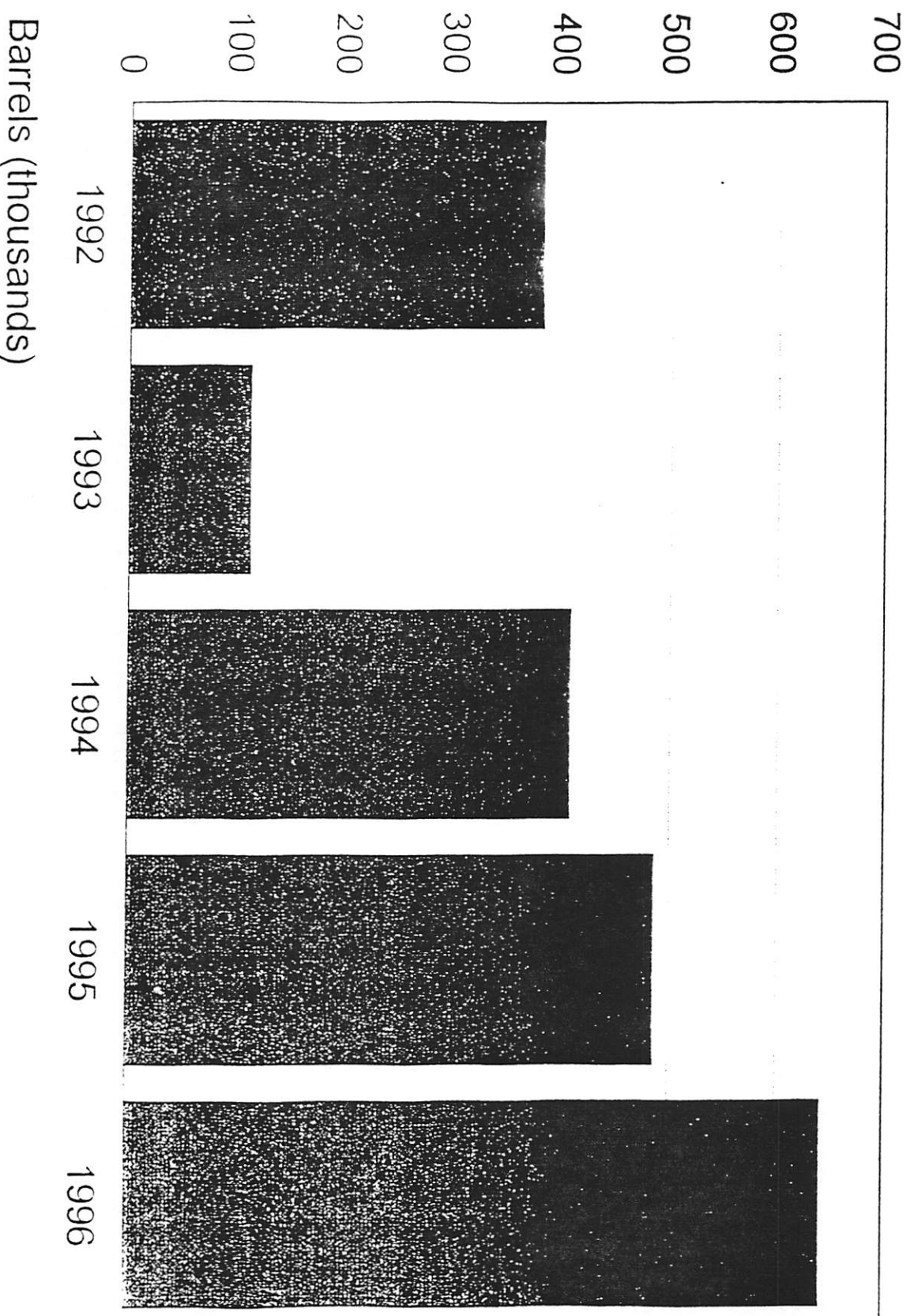
# OYSTER AVAILABILITY

## SISTER LAKE



# OYSTER AVAILABILITY

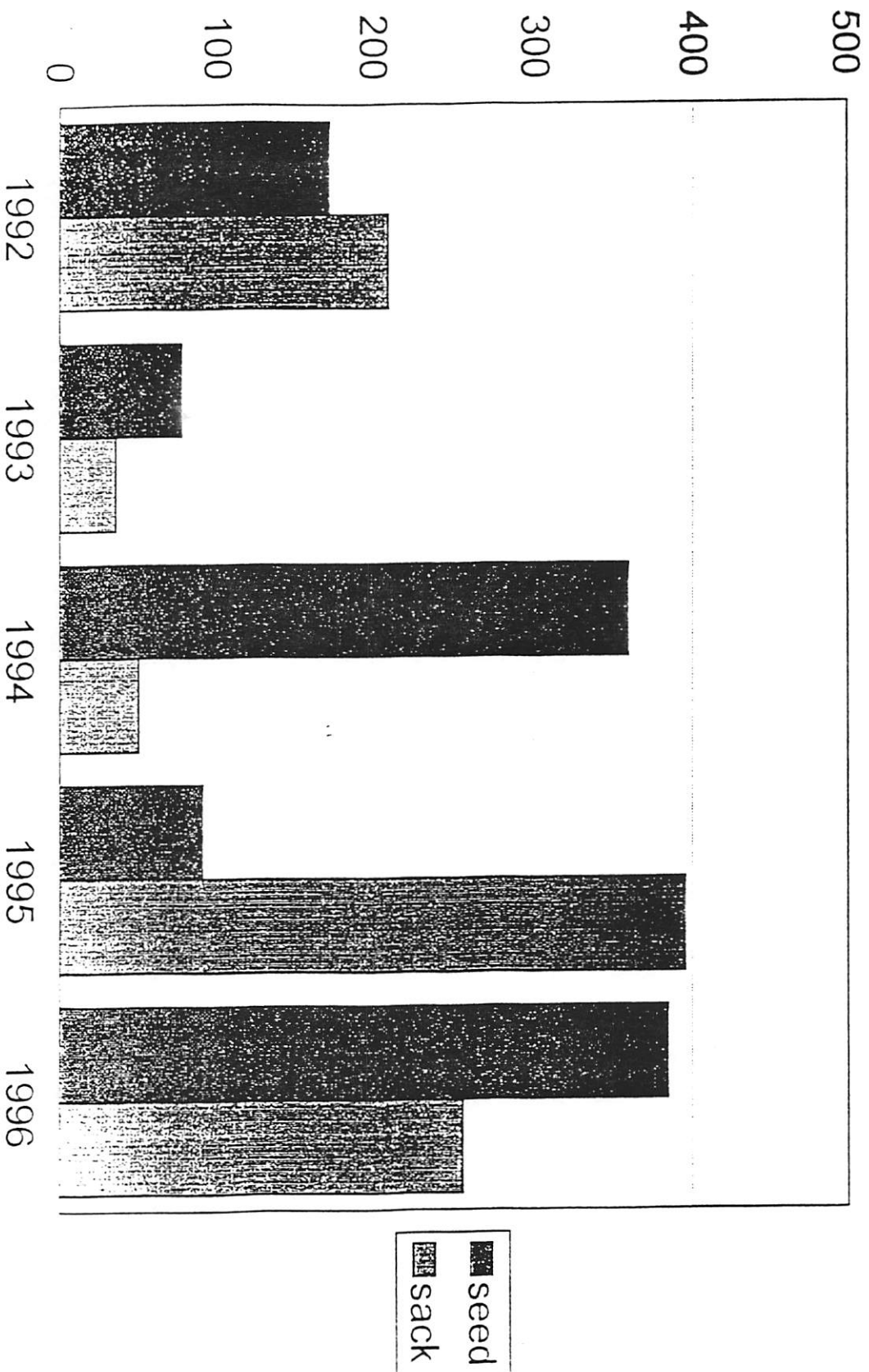
## SISTER LAKE



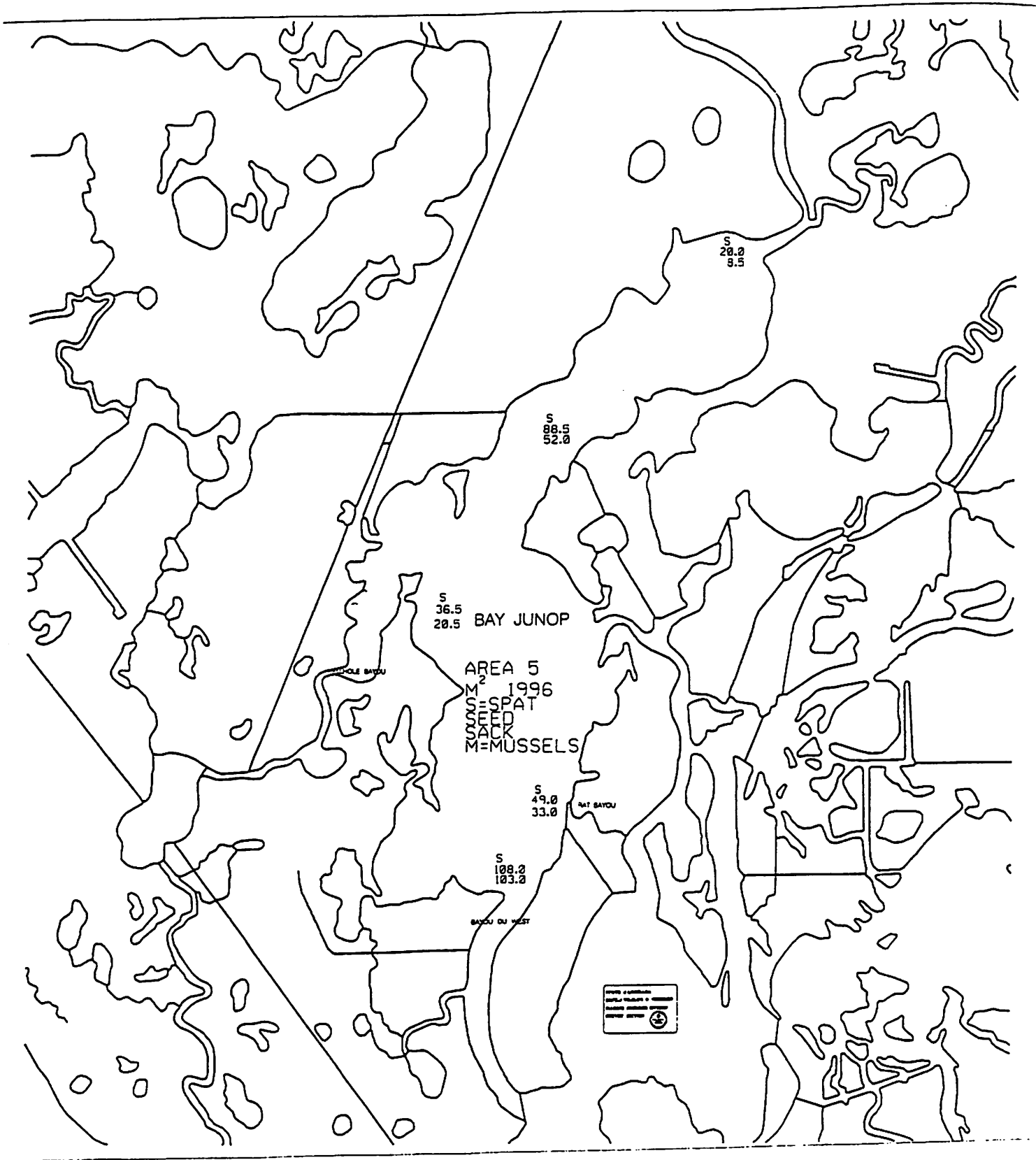
# OYSTER AVAILABILITY

## SISTER LAKE

Barrels (thousands)







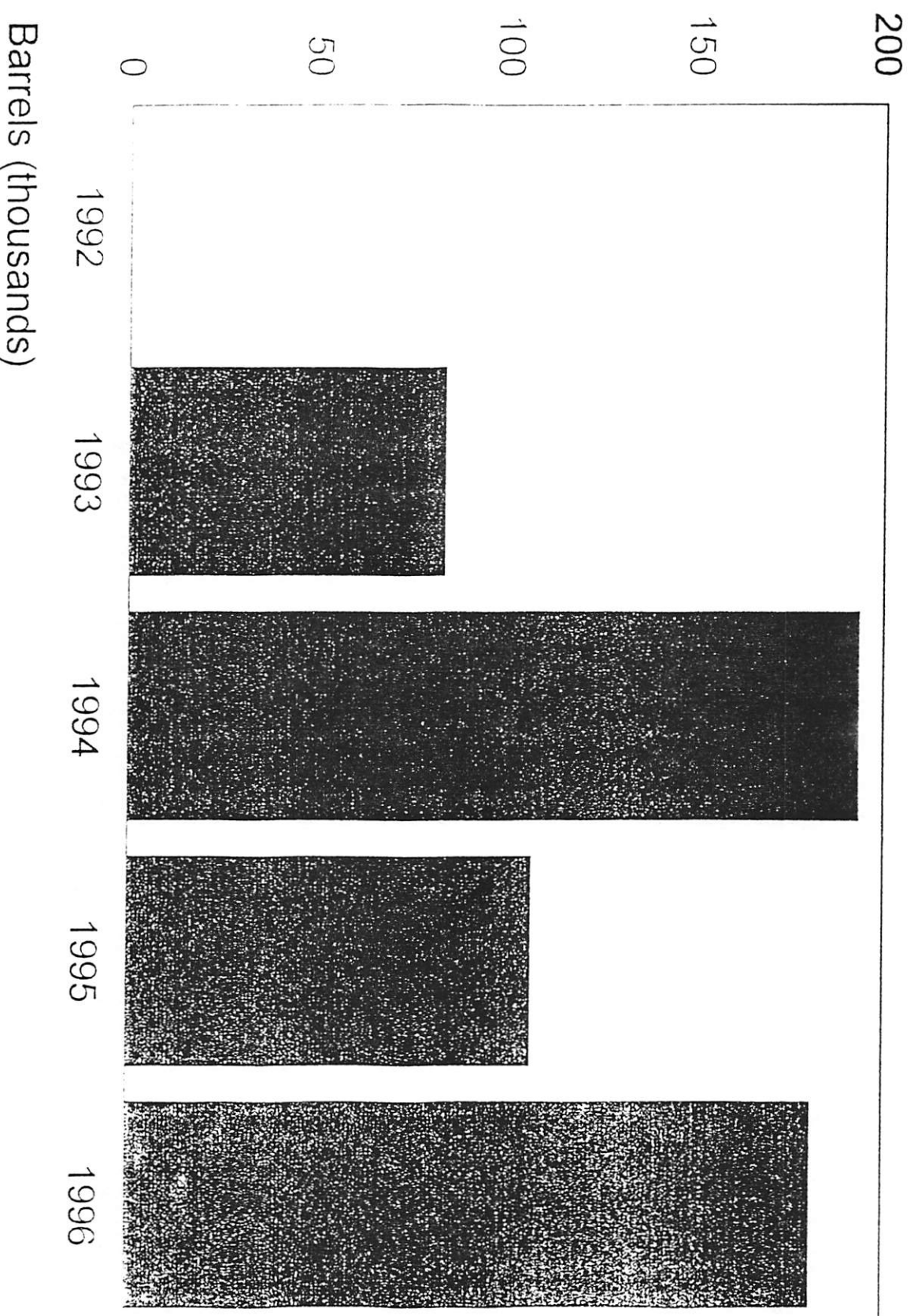
## 1996 BAY JUNOP OYSTER AVAILABILITY

METER <sup>2</sup> STATION	REEF ACREAGE	# METER <sup>2</sup>	# SEED OYS.	# SACK OYS.	BBLS SEED	BBLS SACK
251	17.2	69,284.64	20	8.5	1,924	1,636
253	73.26	296,483.22	88.5	52	11,859	42,825
254	94.20	381,227.40	36.5	20.5	19,326	21,709
252	67.36	272,605.92	78.5	68	29,722	51,492
255						
TOTALS					62,831	117,662

Bob#1/Bayjnp96.raw

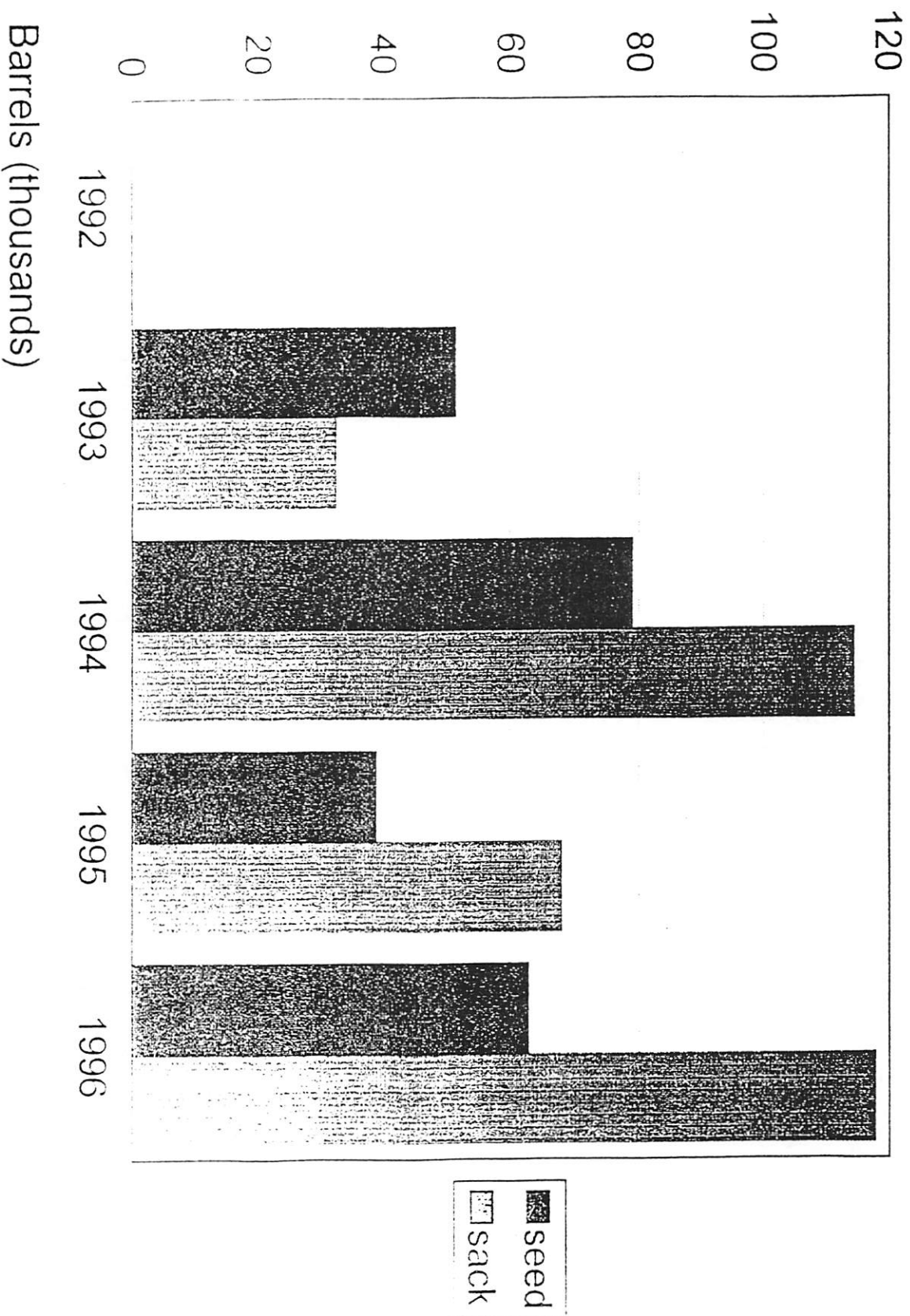
# OYSTER AVAILABILITY

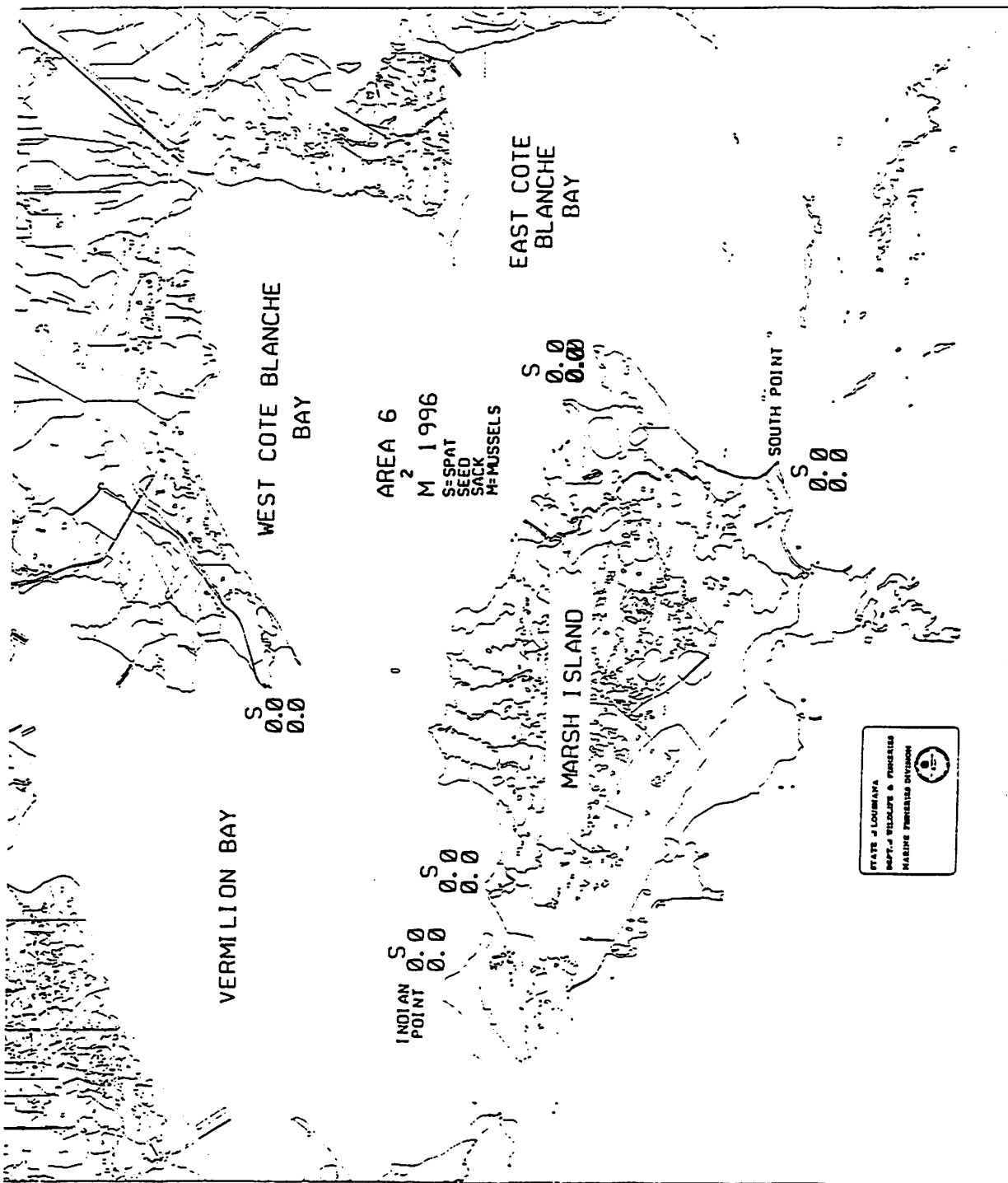
## Bay Junop



# OYSTER AVAILABILITY

Bay Junop





# OYSTER PRODUCTION IN CALCASIEU LAKE AUGUST 1996

## OYSTER NUMBERS

WESTSIDE					EASTSIDE				
SIZE	STATION			AVE.	SIZE	STATION			AVE.
	4	5	6			1	2	3	
> 3"	21	20	31	12.0	> 3"	30	52	35	19.5
1-3"	45	34	57	22.7	1-3"	29	55	71	25.8

## OYSTER PRODUCTION AREA

WESTSIDE	EASTSIDE
2,942,076.67 SQ. METERS	3,901,185.57 SQ. METERS

## PRODUCTION OF > 3" OYSTERS

WESTSIDE		EASTSIDE	
OYSTERS:	35.304,920.040	OYSTERS:	76.073,118.615
SACKS:	196,138.5	SACKS:	422,628.4
TOTAL SACKS OF > 3" OYSTERS:		618,766.9	

## PRODUCTION OF 1-3" OYSTERS

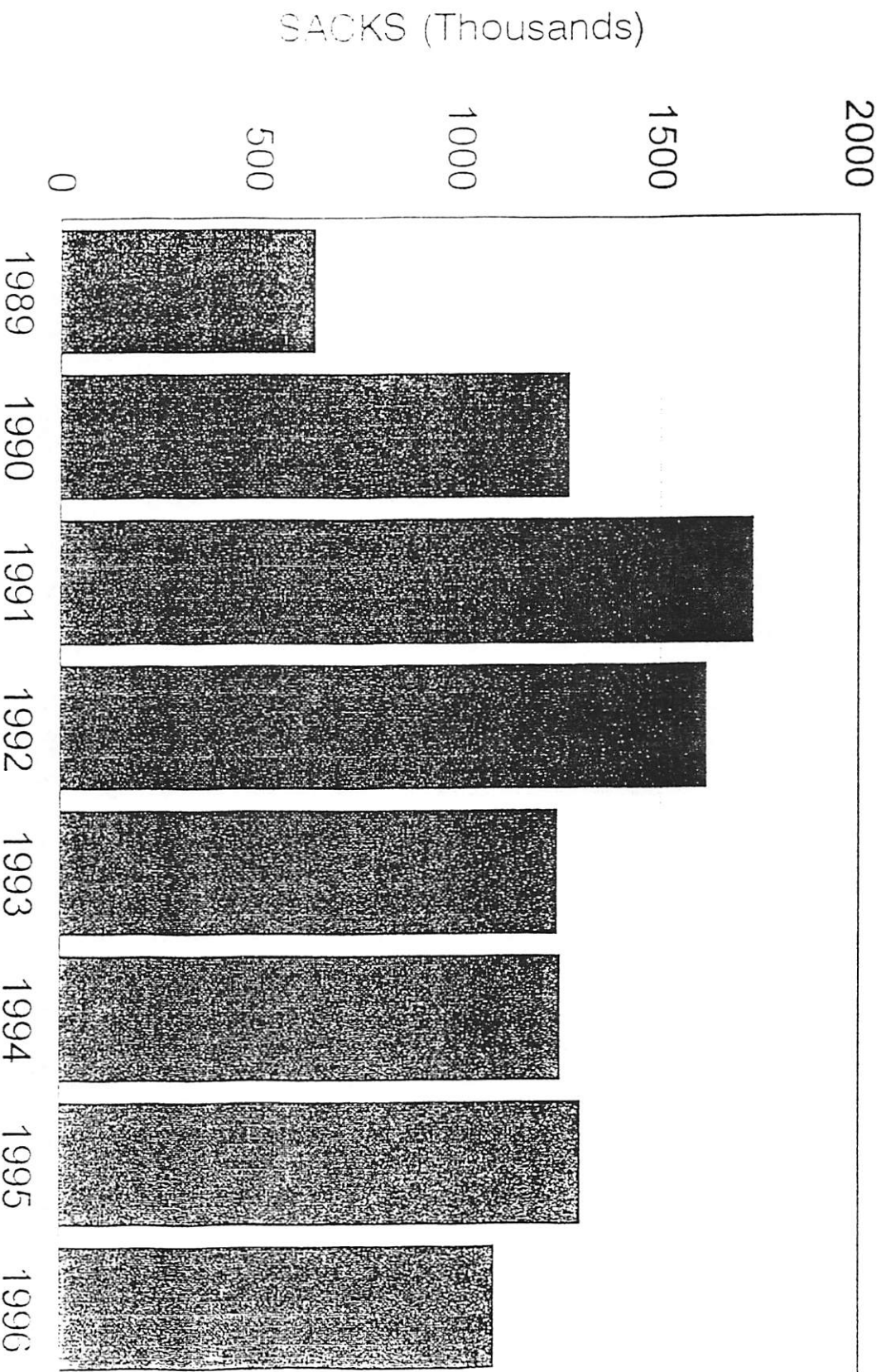
WESTSIDE		EASTSIDE	
OYSTERS:	66.785,140.409	OYSTERS:	100.650,587.706
SACKS:	185,514.3	SACKS:	279,585.0
TOTAL SACKS OF 1-3" OYSTERS:		465,099.3	

## TOTAL PRODUCTION

TOTAL OVERALL POTENTIAL OF OYSTERS (SACKS):	1,083,866.2
---	-------------

# OYSTER AVAILABILITY

## CALCASIEU LAKE



**1996/97 OYSTER PRODUCTION**  
**PUBLIC OYSTER GROUNDS**





James H. Jenkins, Jr.  
Secretary

Department of Wildlife and Fisheries  
P.O. Office Box 98000  
Baton Rouge, LA 70898-0000  
(504)765-1300

M.J. "Mike" Foster  
Governor

### MEMORANDUM

TO: Ron Dugas, Molluscan Program Manager  
FROM: John Burdon, Biologist Supervisor - CSA-I  
DATE: June 5, 1997  
Reference: 1996-1997 Oyster harvest Report

J.D.B.

Oyster season in Coastal Study Area - I (CSA-I) opened for harvest on the 4th of September 1996 and continued for 70 consecutive days. On November 13, 1996, a harvest closure in CSA-I was in acted due to an influx of the marine phytoplankton known as "RED TIDE" (Gymnodinium breve). Harvest in the coastal study area had been minimum during this time due to a larger effort being exerted by the fishing fleet on the more productive fishing grounds in CSA-II. Most of the fishing (in CSA-I) during this time was done by locally domiciled fishermen and those from Mississippi.

Approximate oyster harvest during the period: (Sept. 4- Nov.12, 1996)(70 Days).  
Market Oysters: 19,800 sacks      Seed Oysters: 2,600 barrels

The complete closure of CSA-I (Nov. 13, 1996 - Feb. 27, 1997) lasted for 107 days during which time no oysters should have been legally harvested from oyster grounds of the coastal study area.

On February 28, 1997, a partial reopening of the oyster grounds in CSA-I was initiated ( Map attached). This partial reopening of the oyster grounds within CSA - I extended until April 5, 1997 ( 36 days). Due to the publicity associated with the "RED TIDE" closure and the productive harvest in CSA-II , oyster harvest in CSA - I still continued at a minimum since the more productive oystering areas in CSA-I remained closed. The area reopened was not an area conducive to the production of seed oysters.

Approximate oyster harvest during the period: (Feb. 28--April 5, 1997)(36 days).  
Market Oysters: 16,200 sacks      Seed Oysters: 0 barrels

On April 5, 1997, the entire oyster seed grounds encompassed within CSA - I were reopened for harvest and continued uninterrupted until the season closure on April 30, 1997(26 days).

During this time frame an expanded harvesting effort took place due to several key factors:

- (1) An area of high production for both market and seed oysters was reopened.
- (2) The "RED TIDE" infestation and most of the publicity associated with it had dissipated.
- (3) An opening of the 'Bonnet Carre' Spillway with its introduction of freshwater into the estuarine system prompted a concentration of fishermen to harvest from the area.

Approximate oyster harvest during the period: (April 5--April 30, 1997).(26 days)(Map Attached)

Market Oysters: 52,800 sacks

Seed Oysters: 3,440 barrels

Continuous monitoring throughout the period determined there was no oyster mortality associated with the "RED TIDE" intrusion. However, the closure and publicity associated with "RED TIDE" certainly caused hardships and economic losses to the oyster fishermen and the oyster industry.

Mortalities were not experienced due to freshwater from the spillway opening because of the continuous mixing of saline waters and freshwater associated with prevailing southeasterly winds, then prevailing northwesterly winds at coincidently the most opportunistic time. However, oysters in the area of freshwater introduction were observed to be in a state of physiological stress during the last couple of weeks of oyster harvest from CSA-I.

JFB

Enclosures (5)

# State of Louisiana



James H. Jenkins, Jr.  
Secretary

Department of Wildlife and Fisheries  
June 13, 1997  
1600 Canal Street  
New Orleans, LA 70112  
(504)568-5667

M.J. "Mike" Foster  
Governor

## MEMORANDUM

TO: Ron Dugas, Oyster Program Manager

FROM: Robert L. Ancelet, Coastal Study Area II

SUBJECT: 96/97 Oyster Season in C.S.A. II

The 1996-97 oyster season opened on the public seed grounds in Coastal Study Area II at ½ hour before sunrise on Sept. 4, 1996. A "sacking only" area was declared in Lake Fortuna. Bay Gardene was open as in previous seasons.

At 11:00 AM on Sept. 4, no boats were observed in Bay Gardene or Bay Crab. A total of 141 boats were observed fishing in grids: 46, 48, 49, 40, 39, 55, 56, 57, 62, 63, and 69 (see grid map). Most sack production, 1552, was in grid 49 south of Mozambique Point, while most barrel production, 1500, was in grid 56 near Stone Island.

Quiescent seas during the last two weeks of August resulted in salinity stratification and dissolved oxygen problems. Fishermen complained of dead and dying black stained oysters. Oysters were generally in poor condition with little glycogen reserves resulting in poor yields. Prices were \$13.00 per sack dockside, and increased to as much as 17.00 per sack as demand increased during November and December.

The yield varied between 4 ½ to 5 pints per sack in September. October decreased to 4 pints. November increased to 5 ½ pints as environmental conditions improved and oysters recovered.

Ron Dugas  
June 11, 1997  
Page 2

A number of closures plagued the 1996-97 oyster season east of the Mississippi River. A management closure of reefs near Breton Sound was declared from September 15 to November 1. This closure was in response to stressed and dying oysters. A red tide bloom in Coastal Study Area I resulted in closure of reefs from the MRGO to Mississippi. The red tide closure was from November 13 until a final reopening on April 5, 1997. Coastal Study Area II was closed from January 3-23 due to a Norwalk virus outbreak. Bay Gardene and Bay Crab were closed on February 1, 1997, while the remainder of C.S.A. II remained open until April 30, 1997 allowing an additional month of harvesting.

Oyster production for the 1996-97 season in Coastal Study Area II by month by grid was as follows

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
September, 1996	39	15,680	2,400
	40	5,200	0
	46	0	800
	47	640	14,400
	48	3,790	15,700
	55	1,280	11,220
	56	9,340	30,400
	57	1,860	3,100
	62	28,495	5,950
	63	5,535	3,200
	68	0	2,100
	69	664	8,750
Total		72,484	98,020

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
October, 1996	38	1,030	0
	39	960	0
	40	4,810	0
	46	245	1,800
	47	830	1,200
	48	7,190	7,500
	49	815	0
	55	1,390	4,700
	56	4,010	7,600
	62	3,950	0
	63	4,375	0
	69	2,440	0
Total		32,045	22,800

Ron Dugas  
June 11, 1997  
Page 3

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
November, 1996	38	1,415	0
	40	28,910	1,500
	46	400	1,500
	47	2,945	1,500
	48	3,920	0
	49	9,710	3,000
	55	600	0
	56	5,880	0
	57	990	0
	62	1,055	0
	63	980	0
	69	2,130	0
Total		58,935	7,500

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
December, 1996	38	490	0
	40	59,150	7,800
	46	1,155	0
	47	7,715	0
	48	21,380	0
	49	7,455	0
	55	3,610	0
	56	31,290	17,100
	62	4,900	0
	63	2,680	0
	69	4,050	0
Total		143,875	24,900

Ron Dugas  
June 11, 1997  
Page 4

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
January, 1997	40	2,475	0
	47	450	0
	48	810	0
	49	2,970	0
	56	3,510	0
	62	1,260	0
	63	3,510	0
	69	360	0
Total		15,345	0

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
February, 1997	40	5,160	0
	46	640	0
	47	1,510	2,500
	48	6,410	0
	49	3,960	0
	55	720	0
	56	3,670	0
	62	3,550	0
	63	4,850	0
	69	1,700	0
Total		32,170	2,500

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
March, 97	40	5,370	0
	46	400	0
	47	2,280	2,700
	48	630	0
	49	3,495	0
	55	280	0
	56	2,215	0
	57	2,190	0
	62	1,050	0
	63	3,640	3,600
	69	2,180	0
Total		23,730	6,300

Ron Dugas  
June 11, 1997  
Page 5

<u>Month</u>	<u>Grid</u>	<u>Sacks</u>	<u>Barrels</u>
April, 97	48	520	0
	56	2,340	0
	63	2,600	0
Total		5,460	0
Season Total		384,044	162,020

354,042 bbls

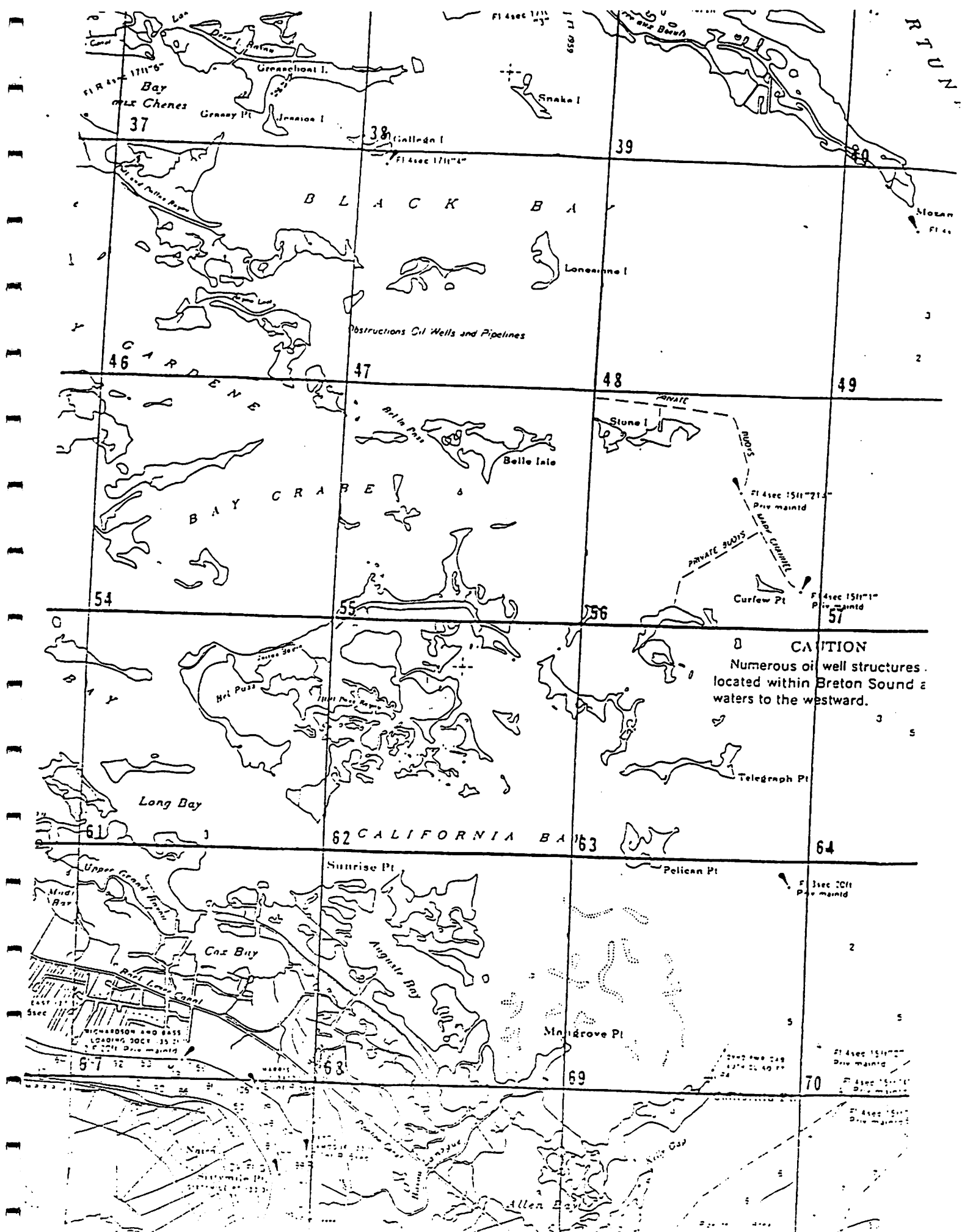
Total production for the 1996-97 season was down from the 1996-95 season: 384,044 sacks and 162,020 barrels as opposed to 520,133 sacks and 193,075 barrels for 1995-96.

The greatest sack production was in grid 40 followed by grids 56, 62, 48, and 63. Most of sack production was in December.

The results of the January, 1997 Norwalk Virus outbreak is clearly reflected in the sack production for C.S.A. II (see bar graph). Production dropped from 37% of the total harvested in December, 1996 to 4% in January. Also, from January until the season ended in April, the market never fully recovered making this illness outbreak very costly for our industry.

Most of our 96-97 seed oysters were produced in grid 56 immediately south of Stone Island. Other productive grids were: 48, 47, and 55. As usual, most of these seed oysters were fished in September.

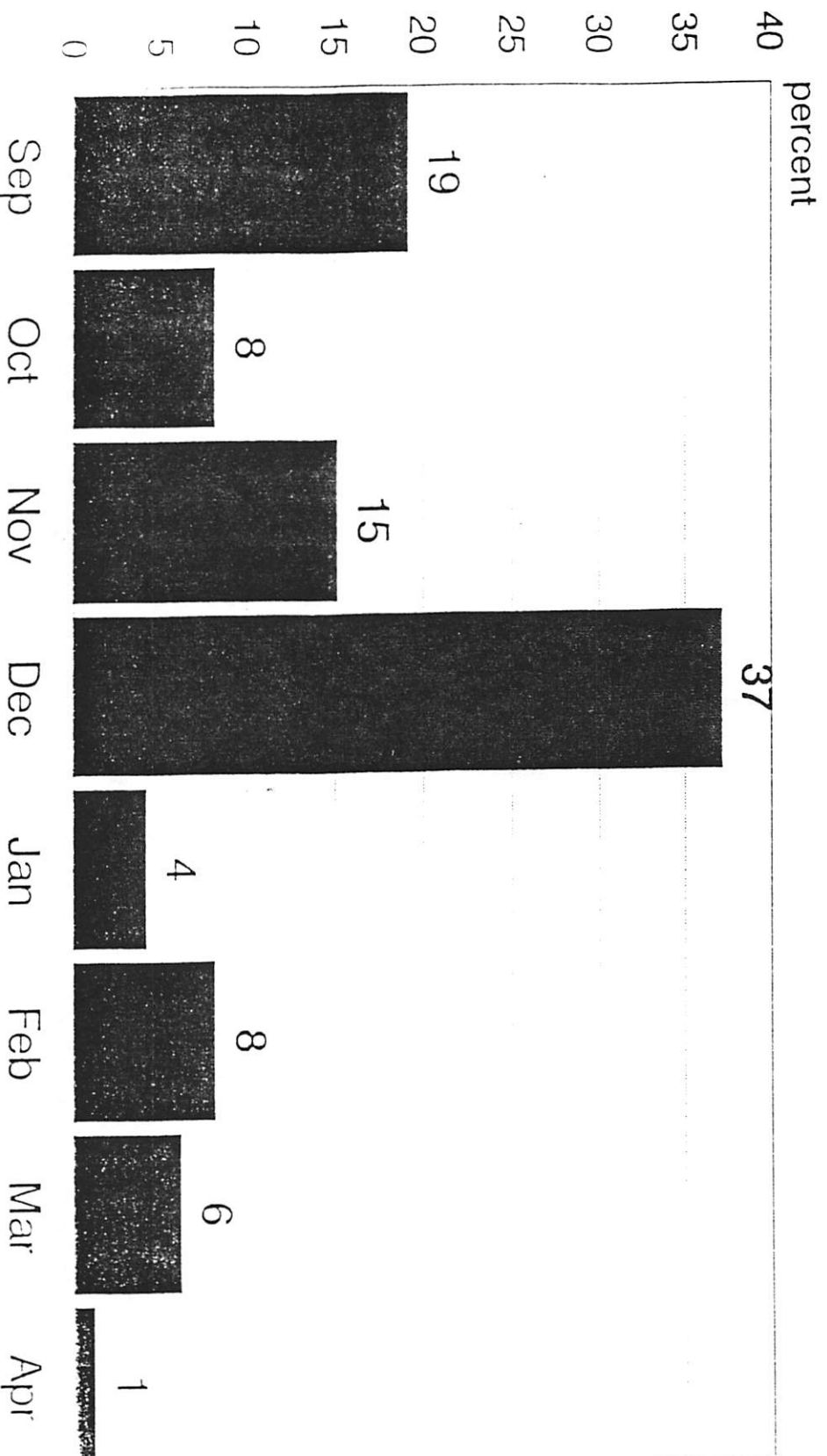
RLA:ymw  
cc: Glenn Thomas  
Greg Laiche





# SACK PRODUCTION

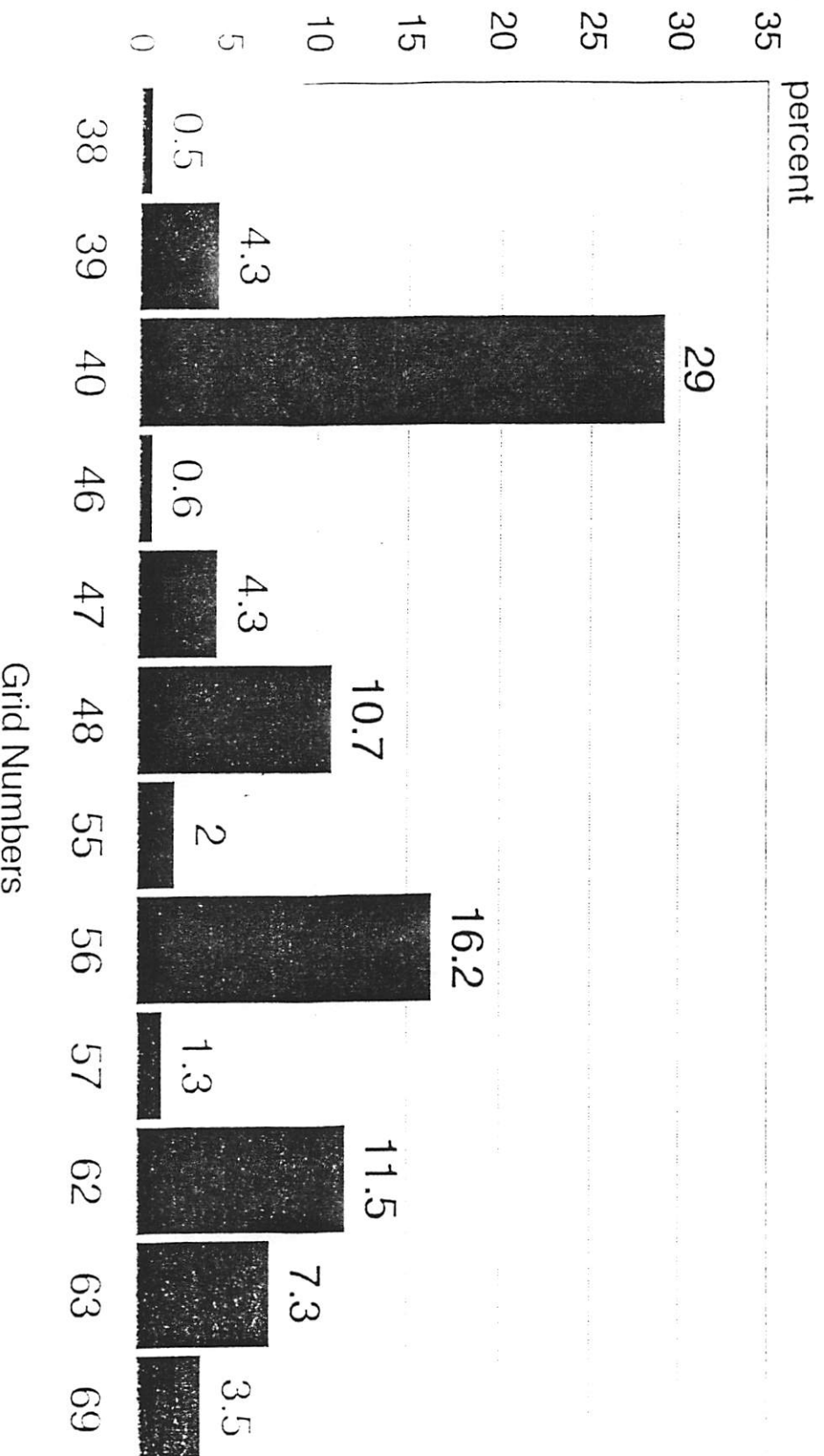
Breton Sound Basin Public Grounds



96/97 season

# SACK OYSTER PRODUCTION

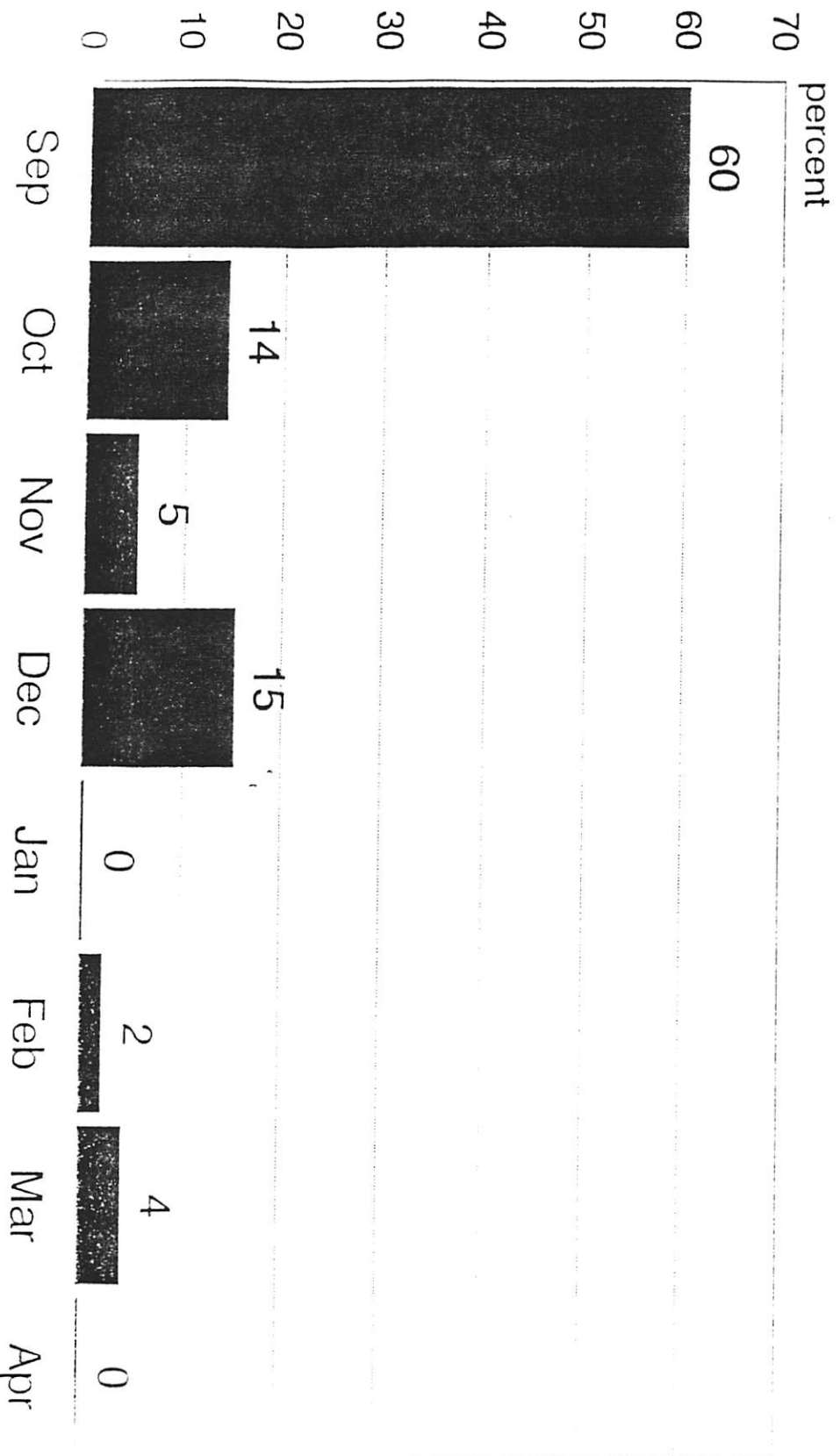
## Breton Sound Basin Public Grounds



96/97 season

# SEED PRODUCTION

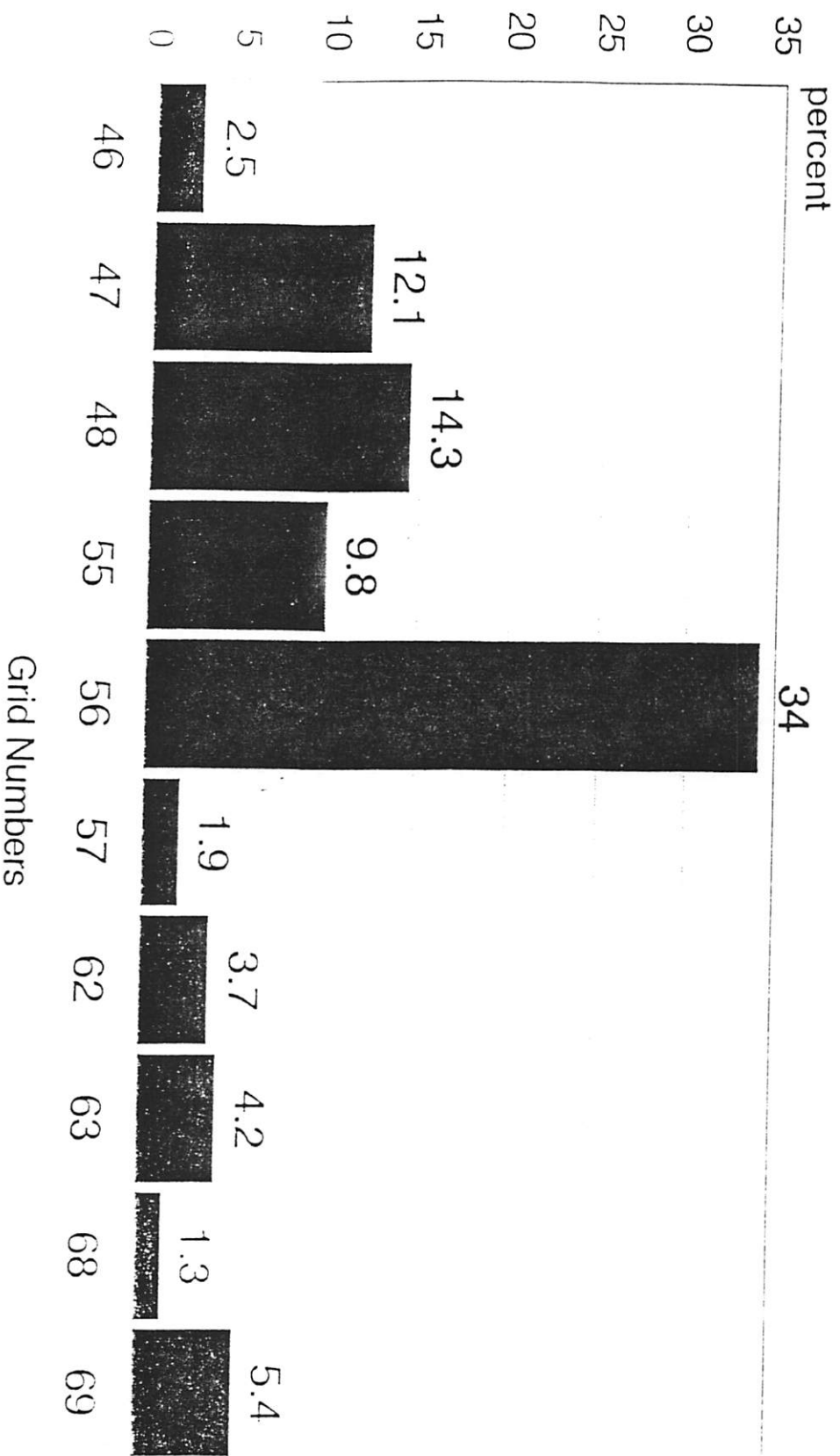
Breton Sound Basin Public Grounds



96/97 season

# SEED OYSTER PRODUCTION

Breton Sound Basin Public Grounds



96/97 season

# State of Louisiana



James H. Jenkins, Jr.  
Secretary

Department of Wildlife and Fisheries  
Post Office Box 189  
Bourg, LA 70343  
(504)594-4139

M.J. "Mike" Foster  
Governor

February 4, 1997

## M E M O R A N D U M

TO: Ron Dugas, Oyster Program Manager  
FROM: Paul Meier, Senior Field Biologist, CSA-V *PM*  
SUBJECT: Sister Lake 1996-97 Oyster Season Harvest

The Sister Lake Oyster Seed Ground season began on September 4, 1996 and ended February 1, 1997. A total of 80,038 sacks and 20,055 barrels, for a combined total of 60,074 barrels were harvested based on our interviews. This is after a record season of production in 1995-96 of 99,984 barrels. A total of 9,440 sacks and 4,750 barrels came from the 1994 shell plants along with 11,582 sacks and 1,880 barrels from the 1995 shell plants (see attached tables).

Most effort during the early part of the season was in the area between Sister Lake Camp, Walker's Point and Grand Pass until the November pollution line closed this area, and the two 1995 shell plants east and west of the Grand Pass Channel, the north 1994 shell plant, approximately one-third of the mid 1994 shell plant and three-fourths of the 1995 shell plant located just southeast of the Sister Lake camp.

A number of boats were cited for sacking undersized oysters in both Sister Lake and Bay Junop opening weekend of the season. This continued periodically throughout the season, especially in Sister Lake. Most of the sack size oysters were removed last season during a record harvest, and the remainder were harvested early during this season, leaving mostly small oysters. Several boats were also cited for fishing without licenses. The fine for sacking undersized oysters is approximately \$250.00 which is equal to one day's work or less for most fishermen, which they gladly pay and continue to sack small oysters.

Fishermen were getting \$9.50 to \$12.00 per sack early in the season and \$14.00 to \$16.00 per sack by mid and late season, which is better than the \$8.00 to \$11.00 they got last season.

Red tide was found off Timbalier Island in December, 1996, but never affected the Sister Lake and Bay Junop areas as it did in regions of Texas and Louisiana east of the Mississippi River during November of 1995. Closures east of the river in association with the high tides of tropical storm Josephine October 7, 1996 also had no affect on our area except for several days of high winds which prevented boats from working.

The yield from a sack of oysters in the Sister Lake and Bay Junop areas this season was generally poor and oysters never "fattered" as usual.

Ron Dugas  
Page 2

Boats were averaging 70-80 sacks per boat per day opening week of the season which dropped to about 50 sacks by mid season and 33-38 sacks by season's end.

If you need any additional information, please let me know.

PM/jbv

# Sister Lake

## 1996-97 Oyster Season Harvest from 1994 Shell Plants

Mo./Yr.	North 1994 Plant	Mid 1994 Plant	South 1994 Plant
Sept., 1996	1,875 Barrels 1,094 Sacks	0	150 Barrels 75 Sacks
Oct., 1996	450 Barrels 459 Sacks	0 Barrels 40 Sacks	1,085 Barrels 1,198 Sacks
Nov., 1996	0 <sup>1</sup>	0 Barrels <sup>2</sup> 163 Sacks <sup>2</sup>	1,310 Barrels 1,909 Sacks
Dec., 1996	0	0 Barrels 1,182 Sacks	0 Barrels 1,196 Sacks
1996 Total	2,325 Barrels 1,553 Sacks	0 Barrels 1,385 Sacks	2,425 Barrels 4,378 Sacks
Jan., 1997	0	0 Barrels 2,024 Sacks	0
Feb. 1, 1997	0	0 Barrels 100 Sacks	0
1997 Total	0	0 Barrels 2,124 Sacks	0
SEASON TOTAL	2,325 Barrels 1,553 Sacks	0 Barrels 3,509 Sacks	2,425 Barrels 4,378 Sacks

<sup>1</sup>November-February pollution line completely closed this plant.

<sup>2</sup>November-February pollution line closed northern one-third of this plant.

# Sister Lake

## 1996-97 Oyster Season Harvest from 1995 Shell Plants

Mo./Yr.	1995 Plant East of Channel	1995 Plant West of Channel	1995 Plant SE of LDWF Camp
Sept., 1996	1,380 Barrels 4,564 Sacks	500 Barrels 4,080 Sacks	0 Barrels 164 Sacks
Oct., 1996	0 Barrels 825 Sacks	0 Barrels 382 Sacks	0 Barrels 601 Sacks
Nov., 1996	0 <sup>1</sup>	0 <sup>1</sup>	0 Barrels <sup>2</sup> 376 Sacks <sup>2</sup>
Dec., 1996	0	0	0 Barrels 410 Sacks
1996 Total	1,380 Barrels 5,389 Sacks	500 Barrels 4,462 Sacks	0 Barrels 1,551 Sacks
Jan., 1997	0	0	0 Barrels 130 Sacks
Feb. 1, 1997	0	0	0 Barrels 50 Sacks
1997 Total	0	0	0 Barrels 180 Sacks
SEASON TOTAL	1,380 Barrels 5,389 Sacks	500 Barrels 4,462 Sacks	0 Barrels 1,731 Sacks

<sup>1</sup>November-February pollution line completely closed this plant.

<sup>2</sup>November-February pollution line closed northern three-fourths of this plant.



**1996 OYSTER AVAILABILITY  
1994 COASTAL STUDY AREA V SHELLPLANTS**

**Seed Oysters**

Shellplant	Acres	# Oysters	Barrels Seed
North	96	192	103,603
Mid	129	166.5	120,727
South	81	174	79,220

**Sack Oysters**

Shellplant	Acres	# Oysters	Barrels Sack
North	96	52	56,118
Mid	129	34.5	50,031
South	81	52	47,350

Sister Lake  
1995-96 Oyster Season Harvest from 1994 Shell Plants

Mo./Yr.	North 1994 Plant	Mid 1994 Plant	South 1994 Plant
Sept., 1995	400 Barrels 0 Sacks	0	1,750 Barrels 0 Sacks
Oct., 1995	0	0	500 Barrels 555 Sacks
Nov., 1995	0 <sup>1</sup>	0 <sup>2</sup>	0 Barrels 340 Sacks
Dec., 1995	0	0	0 Barrels 260 Sacks
1995 Total	400 Barrels 0 Sacks	0	2,250 Barrels 1,140 Sacks
Jan., 1996	0	0	1,100 Barrels 260 Sacks
Feb., 1996	0	0	1,850 Barrels 619 Sacks
Mar., 1996	0 <sup>3</sup>	0 <sup>4</sup>	610 Barrels <sup>5</sup> 938 Sacks
Apr., 1996	0	0	7,650 Barrels 1,738 Sacks
1996 Total	0	0	11,210 Barrels 3,555 Sacks
SEASON TOTAL	400 Barrels 0 Sacks	0 Barrels 0 Sacks	13,460 Barrels 4,710 Sacks

<sup>1</sup> November-February pollution line completely closed this plant.

<sup>2</sup> November-February pollution line closed north portion of this plant.

<sup>3</sup> March-April pollution line kept this plant closed.

<sup>4</sup> March-April pollution line completely closed this plant.

<sup>5</sup> Half this plant closed by March-April pollution line.

# State of Louisiana



James H. Jenkins, Jr.  
Secretary

Department of Wildlife and Fisheries  
Post Office Box 189  
Bourg, LA 70343  
(504)594-4139  
April 30, 1997

M.J. "Mike" Foster  
Governor

## MEMORANDUM

TO: Ron Dugas, Oyster Program Manager  
FROM: Paul Meier, Senior Field Biologist, CSA-5 *PM*  
SUBJECT: Bay Junop 1996-97 Oyster Season Harvest

The Bay Junop oyster season began on September 4, 1996 and ended April 30, 1997 with a total of 53,815 sacks and 3,770 barrels of oysters harvested for a combined total harvest of approximately 30,678 barrels of sack and seed oysters based on our interviews. The large number of sack oysters available along with the large amount of effort by boats and the market demand for oysters helped to produce a record season harvest. The previous record harvest from Bay Junop occurred during the 1994-95 season during which a total of 14,588 barrels (combined sack and seed) was harvested with 445 boat/days of effort. Bay Junop had almost three times the effort this year with 1,314 boat/days.

Demand for oysters remained high even with concerns over Vibrio vulnificus and "red tide" which never affected our area as it did areas east of us. The prices fishermen got for a sack of oysters ranged from \$9.50 to \$12.00 per sack around the opening in September to \$14.00 and \$16.00 per sack around November and December and back down to about \$10.00 per sack by season's end.

I spoke with Mr. Wilson Voisin on the closing day of the season and he indicated that the oysters were still fat but starting to get milky. He indicated that the low salinities we have been experiencing since the last week of March have not resulted in any significant mortalities yet. The salinity on the south end of Bay Junop on closing day was 4 parts per thousand. Atchafalaya River water and water hyacinth are in the Bay Junop area but water temperatures have been slightly lower than average which has probably helped to prevent mortalities.

A number of boats were cited in Bay Junop and Sister Lake early in the season for sacking undersized oysters and not having the proper licenses but no major problems or complaints out of the ordinary were experienced.

Boats were averaging 40 to 50 sacks per day when the season opened and about 25 to 35 sacks per day by season's end.

If you need any additional information, please let me know.

PM/jbv

# State of Louisiana



James H. Jenkins, Jr.  
Secretary

Department of Wildlife and Fisheries  
Post Office Box 189  
Bourg, LA 70343  
(504) 594-4139

M.J. "Mike" Foster  
Governor

February 6, 1997

## MEMORANDUM

TO: Ron Dugas, Oyster Program Manager  
FROM: Paul Meier, Senior Field Biologist, CSA-V *pm*  
SUBJECT: Status of Bay Junop Oyster Harvest

As of the end of January, 1997, the Bay Junop oyster harvest included a total of 44,797 sacks and 1,170 barrels for a combined total of 23,569 barrels. This surpasses any previously recorded total season harvest in Bay Junop and this season is still in progress. The highest total harvest before this season was 14,588 barrels recorded during the 1994-95 season. Over twice as much fishing effort by boats has been recorded thus far this season than was recorded for the entire 1994-95 season in Bay Junop. The large number of sack oysters available for both the 1994-95 and 1996-97 seasons, as projected by our meter square samples, in conjunction with the increased fishing effort by oyster boats resulted in record harvests.

Approximately 87% of the boat effort and over 90% of the harvest occurred during September and October while most of Bay Junop remained open by the Louisiana State Board of Health pollution line closures. By November, most of Bay Junop was closed by the pollution line. Effort declined sharply with the closure as well as a result of low tides and high winds associated with the passage of weather fronts. Several days of high winds during October in association with tropical storm Josephine also reduced effort.

Effort should resume in March if the Board of Health pollution line opens more area and tides increase allowing boats to work the shallow reefs. Boats were averaging over 70 sacks per boat at the beginning of the season and 30-40 sacks per boat by December and January.

If you need any additional information, please let me know.

PM/jbv

# State of Louisiana



James H. Jenkins, Jr.  
Secretary

Department of Wildlife and Fisheries  
1213 North Lakeshore Drive  
Lake Charles, LA 70601  
(318)491-2575

M.J. "Mike" Foster  
Governor

June 3, 1997

## MEMORANDUM:

TO: Ron Dugas, Oyster Program Manager  
FROM: Dudley C. Carver, CSA-VII  
SUBJECT: CSA-VII Oyster Annual Report

Consider the attached data relevant to the CSA-VII 1996-97 oyster season as this seasons annual report.

# TOTAL OYSTER LANDINGS FROM DEARLER REPORT IN CSA VII

	1992/93	1993/94	1994/95	1995/96	1996/97	1997/98	1998/99	1999/2000
OCTOBER	-----	0	-----	211	720			
NOVEMBER	8,081	2,782	0'	3,427	4,383			
DECEMBER	11,055	5,737	2,061	6,066	14,036			
JANUARY	3,025	2,632	2,066	6,668	14,428			
FEBRUARY	4,971	1,042	1,378	5,185	2,135			
MARCH	196	325	426	5,628	4,239			
APRIL	0	300	203	1,897	3,500			
TOTAL	27,328	12,818	6,134	29,082	43,441			

SEASON WAS CLOSED 10-31-94 BY DHM UNTIL 12/10/94.

# OYSTER STATUS IN CALCASIEU LAKE

SEASONS	STOCK ASSESSMENT		ESTIMATED SACKS HARVESTED
	MARKETABLE	TOTAL	
1963	-	-	210,160
1967-74	-	-	NO COMMERCIAL LANDINGS
1975-76	142,726	441,183	40,000
1976-77	694,420	869,475	100,000
1977-78	483,673	621,885	141,976
1978-79	-	-	75,000
1979-80	676,333	979,613	125,000
1980-81	355,664	705,117	150,000
1981-82	608,110	988,575	-
1982-83	-	-	50,000-75,000
1983-84	-	-	150,000
1984-85	125,407	644,788	-
1985-86	315,160	537,760	27,400
1986-87	589,940	1,217,959	200,000
1987-88	796,950	2,703,647	125,000
1988-89	463,331	1,036,580	50,000
1989-90	172,046	640,892	40,000
1990-91	408,961	1,268,962	50,000
1991-92	1,048,882	1,731,367	31,383
1992-93	749,915	1,612,736	27,328
1993-94	748,281	1,238,783	12,818
1994-95	756,525	1,246,480	6,134
1995-96	956,926	1,298,379	29,082
1996-97	618,767	1,063,866	43,441
1997-98			
1998-99			
1999-2000			

## OYSTER TAG SALES IN CSA VII

OCTOBER 1996	NOVEMBER 1996	DECEMBER 1996	JANUARY 1997	FEBRUARY 1997	MARCH 1997	APRIL 1997	TOTAL 1996-97
4,000	7,000	20,010	21,000	4,000	1,100	6,100	63,210



# CALCASIEU LAKE OYSTER SEASON

OCTOBER 1996

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
15		X		X	2.2	00.10	0.00
16	X		X		2.2	00.10	0.02
17	X		X		2.14	00.10	0.00
18	X		X		2.18	00.63	0.18
19	X		X		2.1	00.63	0.00
20	X		X		2.1	00.63	0.00
21	X		X		2.12	00.63	0.00
22	X		X		2.10	00.77	0.52
23	X		X		2.14	01.05	0.00
24	X		X		2.17	01.05	3.38
25	X		X		5.57	04.44	5.30
26	X		X		11.3	-	0.02
27		X		X	13.9	-	0.00
28		X		X	13.44	08.61	0.00
29		X		X	12.52	08.61	0.00
30		X		X	11.37	08.74	0.07
31		X		X	9.61	08.74	0.00
TOTALS	11	5	11	5		8.46	9.49

# CALCASIEU LAKE OYSTER SEASON

NOVEMBER 1996

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X			X	6.29	08.75	0.00
2	X			X	5.7	-	0.26
3	X		X		5.1	-	0.00
4	X		X		4.30	08.78	0.00
5	X		X		4.0	-	0.00
6	X		X		3.55	08.79	0.00
7	X		X		3.29	09.10	1.10
8	X		X		4.2	-	0.00
9	X		X		5.7	-	0.00
10	X		X		6.3	-	0.00
11	X		X		5.5	-	0.00
12	X		X		4.60	09.74	0.00
13	X		X		4.18	09.74	0.00
14	X		X		3.81	00.07	0.00
15	X		X		3.44	00.08	0.00
16	X		X		3.2	-	0.02
17	X		X		3.0	-	0.27
18	X		X		7.45	01.83	0.21
19	X			X	9.81	01.83	0.01
20	X			X	8.89	01.84	0.00
21	X			X	8.44	01.84	T
22	X			X	6.96	01.84	0.00
23	X			X	-	-	0.00
24	X		X		4.7	-	0.20
25	X		X		5.3	-	T
26	X		X		6.80	02.74	0.00
27	X		X		6.7	-	0.00
28	X		X		5.9	-	0.00
29	X		X		5.0	-	T
30	X		X		4.6	-	0.14
TOTALS	30	0	23	7		3.73	2.21

# CALCASIEU LAKE OYSTER SEASON

DECEMBER 1996

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X		X		4.6	-	0.00
2	X		X		4.8	-	0.00
3	X		X		5.05	02.96	0.00
4	X		X		4.84	02.96	0.00
5	X		X		4.6	-	0.40
6	X		X		4.14	03.29	0.00
7	X		X		4.0	-	0.00
8	X		X		3.96	-	0.00
9	X		X		3.90	03.30	0.00
10	X		X		3.70	00.07	0.00
11	X		X		3.49	00.07	T
12	X		X		3.25	00.07	0.00
13	X		X		3.06	00.08	0.00
14	X		X		2.94	-	0.00
15	X		X		2.9	-	0.71
16	X		X		3.98	01.59	0.40
17	X		X		8.66	01.89	0.00
18	X			X	10.65	01.89	T
19	X			X	11.20	01.89	0.00
20	X			X	11.09	01.89	0.00
21	X			X	10.0	-	0.00
22	X			X	-	-	T
23	X			X	6.72	01.91	T
24	X			X	6.50	02.03	0.00
25	X		X		6.5	-	0.00
26	X		X		6.5	-	0.12
27	X		X		6.54	02.13	0.00
28	X		X		6.5	-	T
29	X		X		6.1	-	0.67
30	X		X		6.85	03.95	0.01
31	X		X		5.6	-	0.53
TOTALS	31	0	24	7		4.29	2.84

# CALCASIEU LAKE OYSTER SEASON

JANUARY 1997

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X		X		5.9	-	T
2	X		X		-	-	0.01
3	X		X		5.24	04.0	0.00
4	X		X		5.1	-	0.00
5	X		X		5.0	-	0.00
6	X		X		4.80	4.00	0.04
7	X		X		5.13	05.45	0.17
8	X		X		10.80	06.29	1.90
9	X			X	11.41	06.36	0.70
10	X			X	10.97	00.05	0.00
11	X			X	10.2	-	0.00
12	X			X	8.7	-	0.56
13	X			X	7.2	-	0.34
14	X			X	6.8	-	0.00
15	X			X	6.65	00.84	0.34
16	X			X	7.9	-	0.00
17	X			X	8.8	-	0.00
18	X			X	8.3	-	0.00
19	X			X	7.6	-	0.00
20	X			X	6.5	-	T
21	X		X		5.98	01.17	0.01
22	X		X		6.17	02.21	0.48
23	X		X		8.85	02.45	0.07
24	X			X	8.74	02.46	0.00
25	X			X	7.9	02.46	0.00
26	X			X	6.0	02.46	0.00
27	X			X	6.04	02.46	0.00
28	X			X	6.7	-	0.00
29	X			X	11.7	-	T
30		X		X	13.56	04.21	0.00
31		X		X	13.73	04.21	0.00
TOTALS	29	2	11	20		6.57	4.62

# CALCASIEU LAKE OYSTER SEASON

FEBRUARY 1997

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1		X		X	13.6	04.21	0.00
2		X		X	12.8	04.21	0.00
3		X		X	11.02	04.21	0.00
4		X		X	9.21	04.24	0.00
5	X			X	10.46	04.25	0.00
6	X			X	12.85	00.05	0.00
7		X		X	13.63	00.05	0.21
8		X		X	13.6	-	0.00
9		X		X	12.7	-	0.01
10		X		X	11.34	00.42	0.10
11	X			X	10.8	-	0.10
12	X			X	10.01	00.52	2.50
13	X			X	13.24	03.98	0.00
14		X		X	16.06	03.98	0.05
15		X		X	17.0	-	0.00
16		X		X	17.4	-	0.00
17		X		X	17.87	04.03	0.00
18		X		X	17.43	04.03	0.00
19		X		X	16.46	04.03	0.00
20		X		X	15.58	04.05	0.04
21		X		X	15.54	04.67	0.06
22		X		X	15.6	04.67	0.00
23		X		X	15.1	04.67	0.00 3
24		X		X	14.66	04.67	0.32
25		X		X	14.71	06.51	0.56
26		X		X	15.67	06.84	0.43
27		X		X	17.06	08.43	0.01
28		X		X	18.27	08.65	0.01
TOTALS	5	23	0	28		8.50	4.43

# CALCASIEU LAKE OYSTER SEASON

MARCH 1997

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1		X		X	19.6	-	0.00
2		X		X	19.3	-	T
3		X		X	18.67	08.69	T
4		X		X	18.09	11.05	0.03
5		X		X	17.07	0.06	0.04
6		X		X	15.91	00.07	0.00
7		X		X	14.50	00.07	0.00
8		X		X	13.9	-	0.00
9		X		X	13.0	-	0.01
10		X		X	11.99	00.08	0.04
11		X		X	11.03	00.09	0.04
12	X			X	10.26	00.25	0.21
13	X			X	10.02	01.48	0.83
14	X			X	12.81	01.71	0.00
15		X	-	X	13.7	01.71	0.00
16		X		X	12.5	01.71	0.22
17		X		X	12.63	01.71	T
18		X		X	11.79	01.71	T
19		X		X	10.75	02.72	0.65
20	X			X	11.62	02.73	T
21	X			X	11.74	02.73	0.00
22	X			X	-	02.73	0.00
23	X			X	-	02.73	0.00
24	X			X	10.22	02.73	0.00
25	X			X	9.72	02.73	0.00
26	X			X	8.93	03.10	0.72
27	X			X	7.87	03.10	T
28	X			X	-	-	0.00
29	X			X	8.3	-	0.00
30	X			X	8.0	-	0.39
31	X			X	7.43	03.16	0.00
TOTALS	15	16	0	31		3.16	3.18

# CALCASIEU LAKE OYSTER SEASON

APRIL 1997

DATE	EASTSIDE		WEST COVE		KINDER GAUGE		LAKE CHARLES
	OPEN	CLOSED	OPEN	CLOSED	RIVER LEVEL	RAIN FALL	RAIN FALL
1	X			X	7.27	03.16	0.01
2	X			X	7.16	03.16	0.01
3	X			X	7.07	03.16	0.01
4	X			X	6.86	03.21	0.13
5	X		X		6.7	-	0.89
6	X		X		7.3	-	0.00
7	X		X		8.17	04.20	0.00
8	X			X	8.93	04.20	T
9	X			X	8.59	04.20	0.01
10	X			X	7.20	04.20	0.00
11	X			X	6.50	04.20	0.13
12	X		X		6.9	-	T
13	X		X		7.1	-	0.00
14	X		X		6.87	05.55	0.00
15	X		X		7.89	00.05	0.00
16	X			X	7.71	00.05	0.00
17	X			X	-	-	0.00
18	X			X	7.1	-	0.00
19	X			X	6.9	-	T
20	X			X	6.75	-	0.00
21	X			X	6.53	00.08	T
22	X		X		6.15	00.08	0.00
23	X		X		5.75	00.08	0.00
24	X		X		5.38	00.08	T
25	X		X		4.99	00.08	2.50
26	X		X		5.8	-	0.03
27	X		X		11.50	-	0.69
28	X		X		12.07	02.65	0.02
29		X		X	13.33	02.67	0.00
30		X		X	13.84	02.67	0.00
5-1		X		X	13.42	02.67	0.00
TOTALS	28	2	14	16		5.01	4.43

# CALCASIEU LAKE OYSTER SEASONS

SEASON	SEASON			EXTENDED SEASON			TOTAL SEASON		
	DATES			HEALTH CLOSURES			WESTCOVE		
	OPEN DATE	CLOSED DATE	TOTAL DAYS	OPEN DATE	CLOSED DATE	TOTAL DAYS	OPEN DATE	CLOSED DATE	TOTAL DAYS
1989-1990	11-15	3-15	121	79	42	79	40	6	6
1990-1991	11-15	3-1	147	95	52	95	20	0	0
1991-1992	10-15	3-1	139	69	70	69	45	45	15
1992-1993	10-15	3-1	138	123	15	76	14	13	27
1993-1994	11-1	3-1	121	94	27	61	52	8	7
1994-1995	11-1	3-1	121	69	52	9	21	39	60
1995-1996	10-16	3-1	138	125	13	80	30	0	0
1996-1997	10-16	5-1	197	149	48	83	-	-	-
1997-1998									
1998-1999									
1999-2000									

\* STARTING WITH 92 SEASON (CALCASIEU LAKE WAS SPLIT INTO TWO UNITS, EASTSIDE (WITH RIVER STAGE CLOSURE @ 12 ft.) AND WESTCOVE (WITH RIVER STAGE CLOSURE @ 7 ft.).  
 \* DIRM CLOSED EASTSIDE (FROM 11/1-12/10/94) AND WESTCOVE (FROM 11/1-12/8/95) WITH A PRECAUTIONARY (POSSIBLE LEAD CONTAMINATION) CLOSURE.



**1997/98 M<sup>2</sup> SAMPLES**  
**AND**  
**STOCK ASSESSMENT**

**COASTAL STUDY AREA I**  
**JOHN BURDON**

# State of Louisiana



James H. Jenkins, Jr.  
Secretary

Department of Wildlife and Fisheries  
Post Office Box 98000  
Baton Rouge, LA 70898-9000  
(504)765-2800

M.J. "Mike" Foster  
Governor

TO: Ron Dugas, Oyster Prog. Mgr.  
FROM: John F. Burdon, Bio. Sup./ CSA-I 88  
REFERENCE: Oyster Square Meter Samples  
Date: July 25, 1997

The following information on oysters by square meter for production analysis was acquired during July between the 1 and the 11 of 1997.

## Hospital Wall (sta.1)

No oysters were retrieved from either dredge or square meter sampling efforts.

## Grassy Island (sta.2)

Only one of the two square meters samples produced oysters.

Seed oysters (25-75 mm.) -3

## Half moon (sta.3)

Square meter sample 1. Seed - 3 Market (3">) - 4

Square meter sample 2. Seed - 2 Market - 1

## Little Petite Island (sta. 4)

Square meter sample 1. Seed - 2 Market - 1

Square meter sample 2. Seed - 2

## Three Mile (sta. 5)

Square meter sample 1. Spat (<25mm.) - 1 Seed - 10 Market - 7

Square meter sample 2. Seed - 2 Market - 3

## Grand Pass (sta. 6)

Square meter sample 1. Seed - 19 Market - 12

Square meter sample 2. Spat - 2 Seed - 18 Market - 16

Cabbage Reef (Sta.7)

Square meter sample 1. Spat - 1      Seed - 15      Market - 18

Square meter sample 2.      Seed - 18      Market - 23

Martin Island (sta.9)

No oysters were retrieved in square meter samples

One market oyster was retrieved from a three dredge sample effort.

Holmes Island (10)

No oysters were retrieved from three dredge samples and two square meter samples.

Turkey bayou (11)

One seed oyster was retrieved from a three dredge sample effort.

No oysters were retrieved from two square meter samples.

cc: Claude Boudreaux, Asst. Div. Adm. Mar. Fish.

Attachments (2) ----- Location Map....seed/market

Oyster Availability

Revised: March 2005

**1997 CSA 1 Meter Square Results Revised**

Station	Station	Reef	Reef	Avg per frame						
Name	Number	Acreage	Sq. Meters	seed	sack	Bbls Seed	BblsSack	spat	mussels	drills present
Hospital	1	376.07	1,521,955.29	0	0	0	0			

Grassy	2	6850.17	27,722,638.00	1.5	0					
Halfmoon	3			2.5	2.5					
Petit	4			2	0.5					
	2-4			2.00	1.00	77,007	77,007			

3 Mile	5	3058.65	12,378,356.55	6.5	5	111,749	171,922			
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Grand Pass	6	1801.76	7,291,722.72	19.5	14					
Cabbage	7			17	20.5					
Turkey	11			0	0					
	6-11			12.17	11.50	123,217	232,930			

Martin Is	9	4155.7	16,818,117.90	0	0					
Holmes Is	10			0	0					
	9-10			0.00	0.00	0	0			

2000 SP	12	70	283,290	0	0	0	0			
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Total		311,973	481,859
Combined Total		793,832	

July

To: Ancelet

1997

## COASTAL STUDY AREA I OYSTER AVAILABILITY

Meter <sup>2</sup> Station	Reef Acreage	# Meter <sup>2</sup>	#Seed Oyster	#Sack Oyster	BBLS Seed	BBLS Sack
001	376.07	1,521,955.29	0	0	0	0
002			2	0		
003			3	3		
004			2	1		
002-004	6850.17	27,722,638.00	7	4	269,525.6	308,029.3
005	3058.65	12,378,356.55	6	5	103,152.9	171,921.6
006			19	14		
007			17	21		
008						
011			0	0		
006-011	1801.76	7,291,722.72	36	35	364,586.1	708,917.5
009			0	0		
010			0	0		
009-010	4155.70	16,818,117.90	0	0		
Lake Pont.	631.27	2,554,749.69	N/A	N/A		
ELO1	2691.84	10,893,876.48				
TOTALS					737,264.6	1,188,868.4

20 M

33 M

21

0

65 M

0

19  
14

17  
21

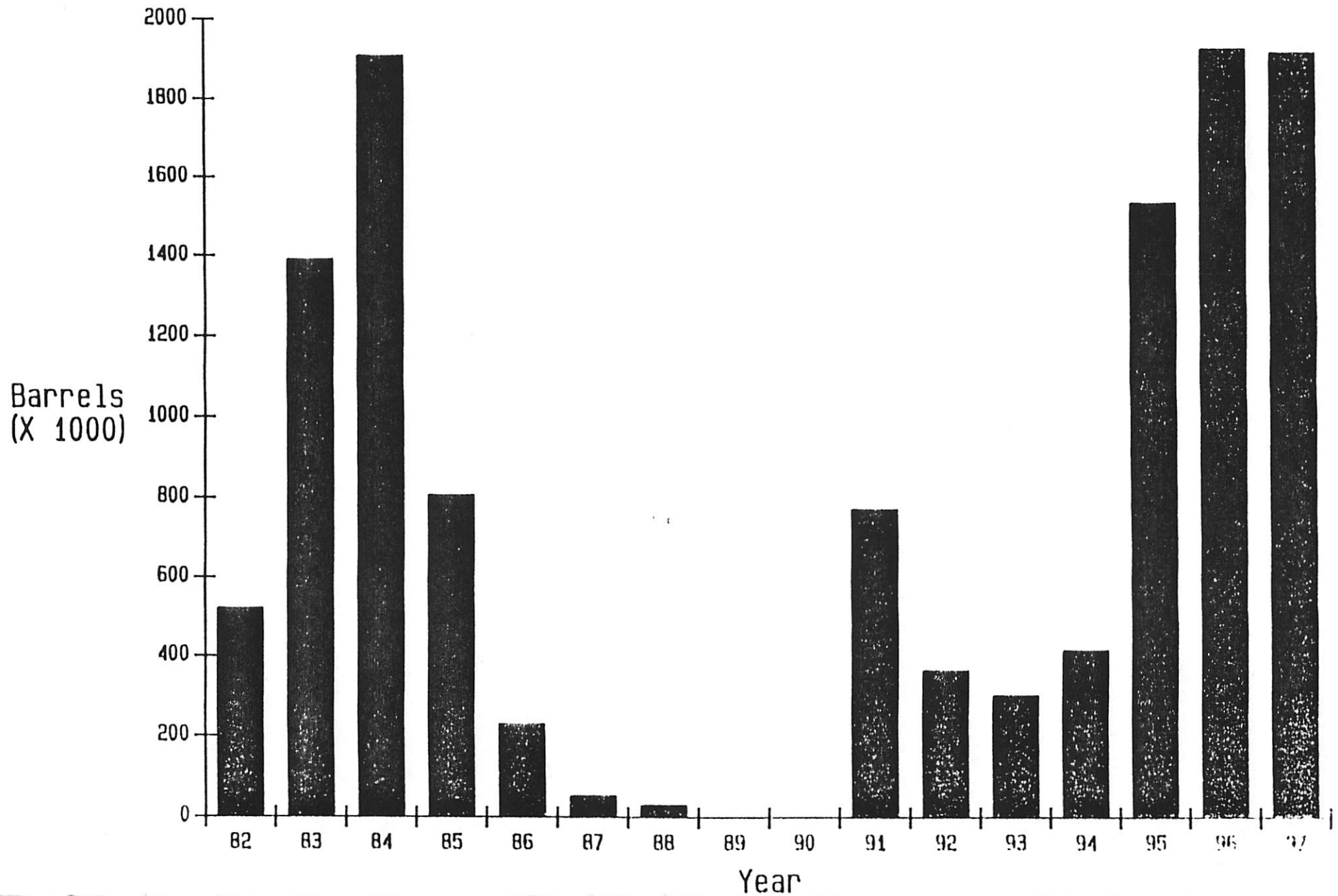
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0

AREA 1  
M<sup>2</sup> 1997  
S = SPAT  
SEED  
SACK  
M = MUSSELS



Oysters Available on the Public Grounds  
in Coastal Study Area I  
(Seed and Sack Oysters Combined)





**COASTAL STUDY AREA II**  
**ROBERT L. ANCELET**

# State of Louisiana



James H. Jenkins, Jr.  
Secretary

Department of Wildlife and Fisheries  
1600 Canal Street  
New Orleans, LA 70112  
(504)568-5667

M.J. "Mike" Foster  
Governor

August 4, 1997

## MEMORANDUM

TO: Ron Dugas, Oyster Program Manager

FROM: Robert L. Ancelet, *RLA* Biologist Supervisor C.S.A. II

SUBJECT: C.S.A. II Meter Square Samples

Personnel from Coastal Study Area II completed the 1997 meter square sampling project on July 9, 1997. A total of 27 stations were sampled from Bay Gardene and Northern Black Bay to Breton Sound.

With the exception of Northern Black Bay, Bel la Pass, and California Bay, stock assessments were generally down from last year. The total stock assessment for Coastal Study Area II was down by 524,726 barrels of seed oysters and 292,699 barrels of sack oysters. We found 2,015,247 barrels of seed oysters and 1,763,799 barrels of sack oysters throughout the area. Large quantities of seed oysters were found in Northern Black Bay, the shellplants (Lonesome Island and Bay Crab) and Bel la Pass. "Hot spots" for sack oysters appear to be: Lake Fortuna, northern Black Bay, the Lonesome Island shellplant, Bel la Pass, and the Bay Crab shellplant.

The decrease in oyster stock assessment for Coastal Study Area II breaks an annual increasing trend that began in 1992. Even with this decrease, oyster stocks remain ample in sustaining production.

Mussels appeared at some stations in northern Black Bay and California Bay.

At stations where mussel infestations were encountered, corresponding increases in stocks at these locations were also observed.

Assessment for the 1994 shellplants are presented herein tabular form (see tables).

1997 OYSTER AVAILABILITY  
1994 CSA II SHELLPLANTS

SEED OYSTERS

SHELLPLANTS	ACRES	#OYSTERS	BARRELS
Lonesome Is.	708	31.33	124,679
Bay Crab	137	48.33	37,217

SACK OYSTERS

SHELLPLANTS	ACRES	#OYSTERS	BARRELS
Lonesome Is.	708	11.67	92,883
Bay Crab	137	4	6,160

1996

Lonesome Is.                   493,464 bbls seed  
                                      228,187 bbls sack

Bay Crab                       64,169 bbls seed  
                                      60,572 bbls sack

RLA:ymw

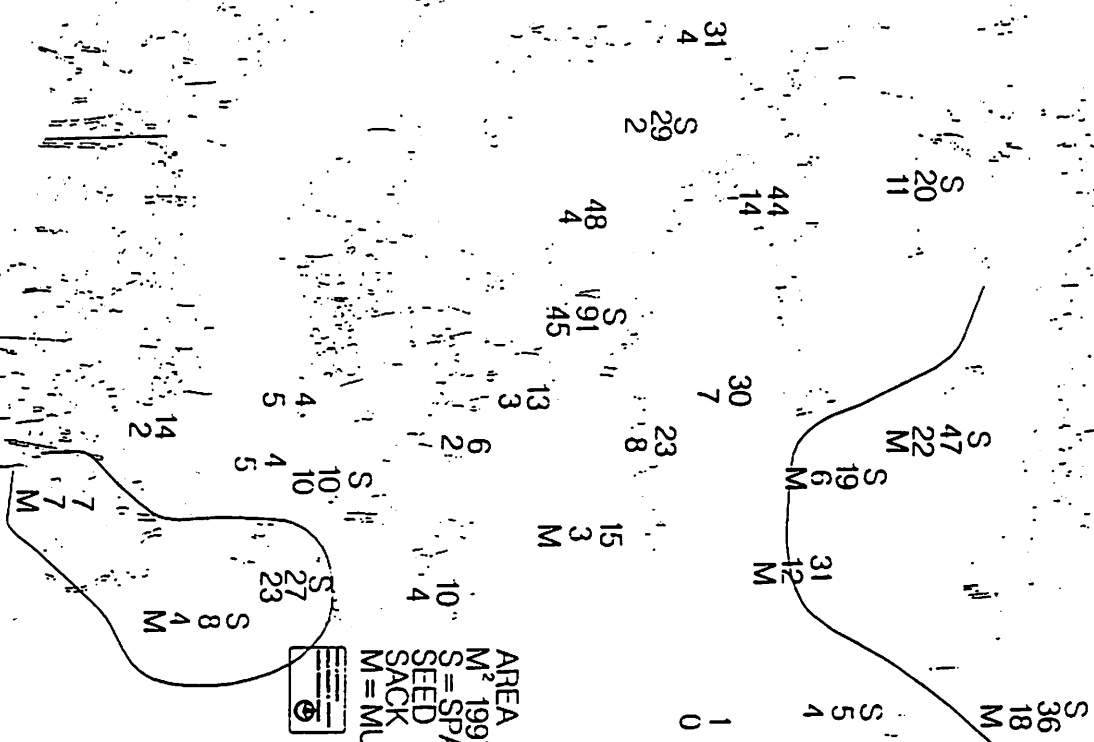
## COASTAL STUDY AREA II

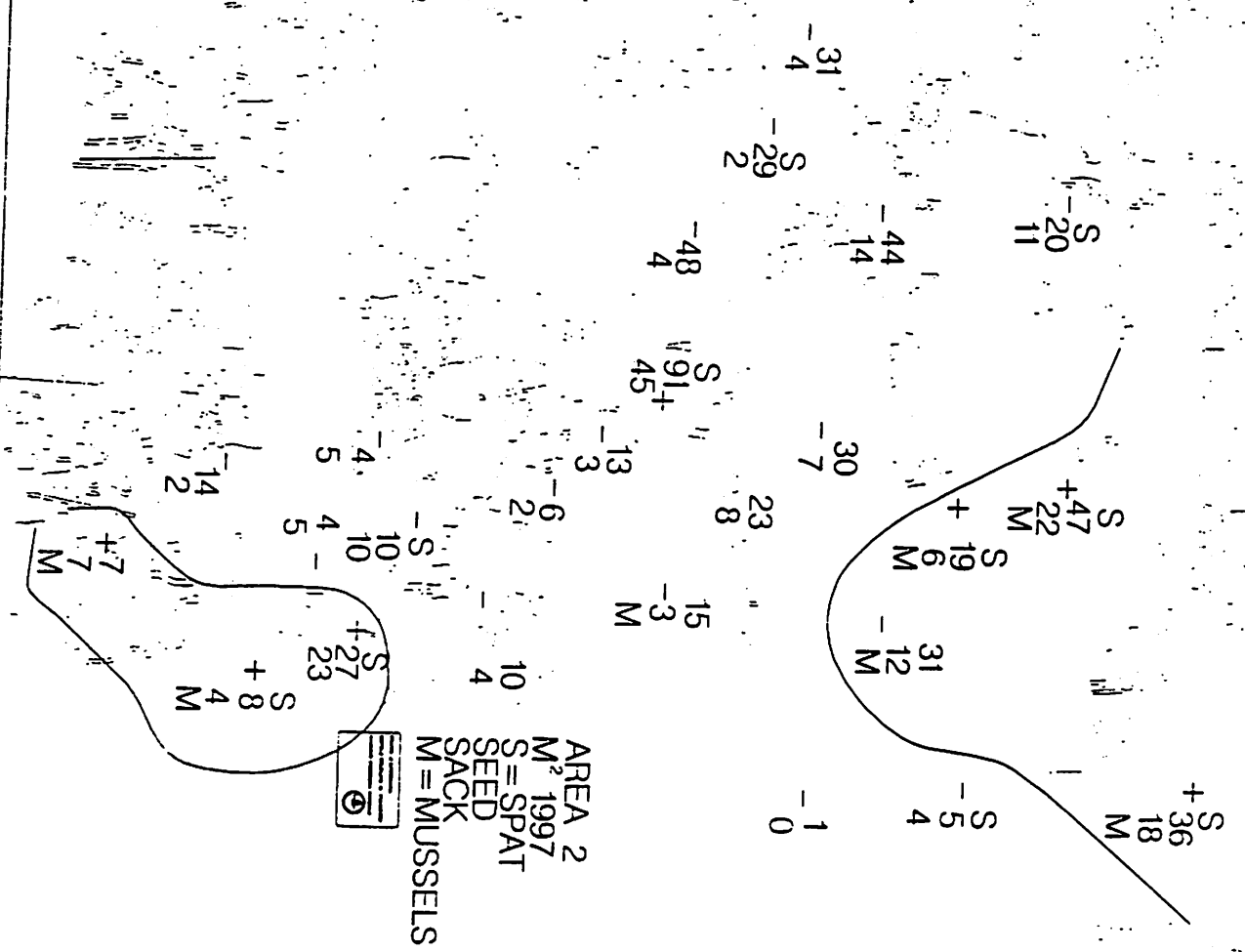
1997

Meter <sup>2</sup> Station	Grids	Acres	Meter <sup>2</sup>	# Seed Oys	# Sack Oys	88LS Seed	88LS Sack
1	1,2,3,4,8,9, 10	506	2,047,782	47.33	21.67	134,613	123,265
2	7,6,5,11, 12	59	283,773	20	10.67	7,882	8,411
3	13,14,15	896	3,626,112	19	6	95,689	60,435
5	17,18,25,24	118	477,546	43.67	13.67	28,964	18,133
6	20,21,16	716	2,897,652	31.33	11.67	126,088	93,932
7	19,26,27	301	1,218,147	30	6.67	50,756	22,570
8	31,36,32	501	2,027,547	48.33	4	136,099	22,528
9	33,34,35	461	1,865,667	22.67	8.33	58,742	43,169
10	40,44	145	586,815	15	2.67	12,225	4,352
11	42,43,46	339	1,371,933	5.67	2	10,804	7,622
12	47	108	437,076	9.67	4	5,370	4,856
13	50,51	109	441,123	10.33	10	6,329	12,253
14	48,49	7	28,329	4	5	157	393
16	62,63,64	174	704,178	13.67	1.67	13,370	3,267
17	52,53,54,55, 59,60	659	2,666,973	0	0	0	0
19	65,66,67,68	193	781,071	7.33	7	7,952	15,187
20	56,58	293	1,185,771	3.67	5	6,044	16,469
21	37,38,-1	659	2,666,973	91	45	337,076	333,372
22	39	122	493,734	12.67	2.67	8,688	3,662
23	30,23	28	113,316	28.67	2	4,512	630
24	22,29	69	279,243	31	3.67	12,023	2,847
4	Horseshoe	315	1,274,805	4.67	4.33	8,269	15,333
15	Outside	127	513,969	27.33	22.67	19,509	32,366
18	Outside	1,528 *	3,164,754 *	8	-	35,164	35,164
26	Same as #4						
25	Battledore	1,419	5,742,693	0	0	0	0
27	L. Fortuna	4,288	17,353,536	36.33	18.33	875,630	883,583
28	Wreck	2,276	9,210,972	1	0	12,793	0
					Total	2,015,247	1,763,799

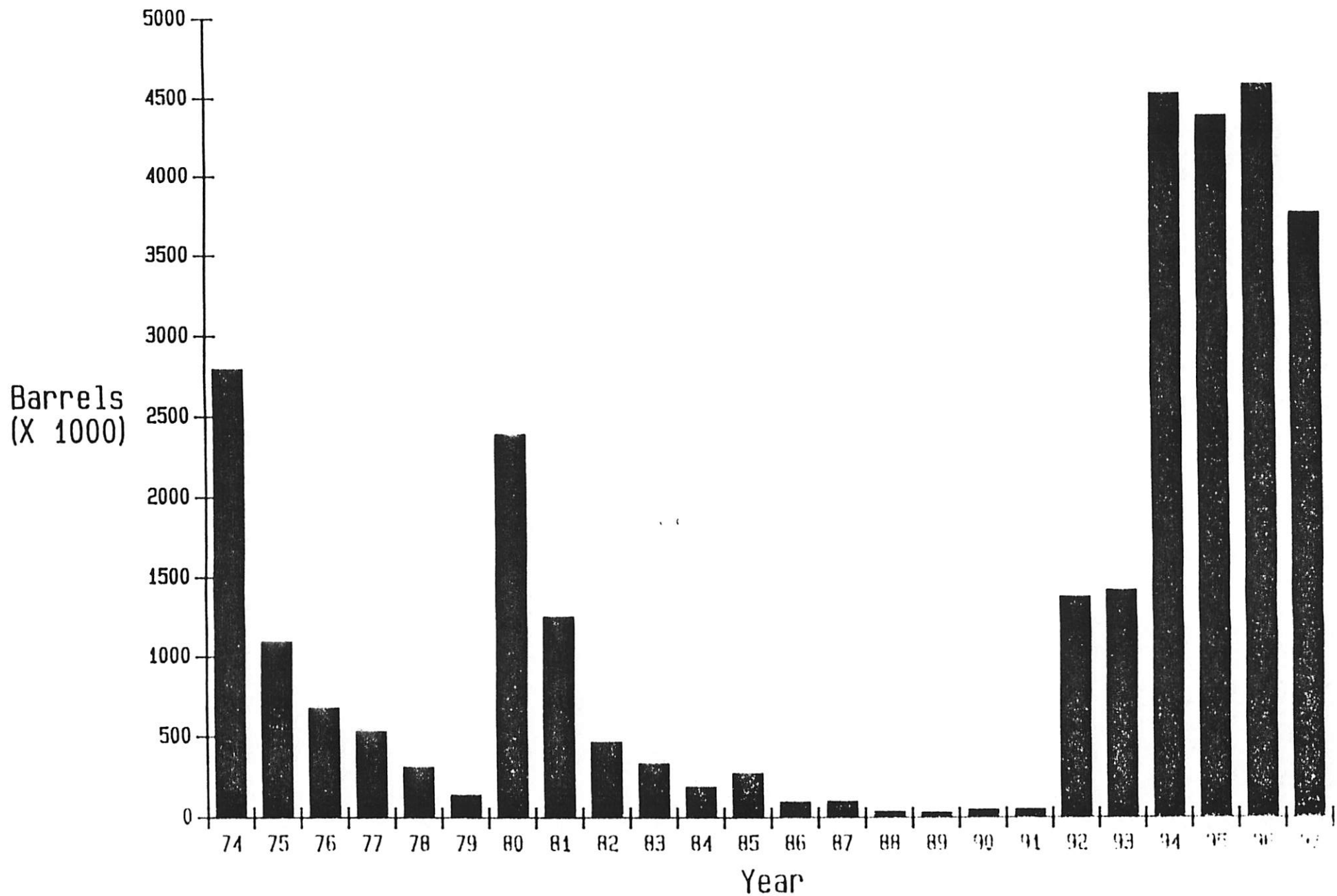
\* Acreage not equal to  
# of m<sup>2</sup>

✓  
3,779,046 bbls



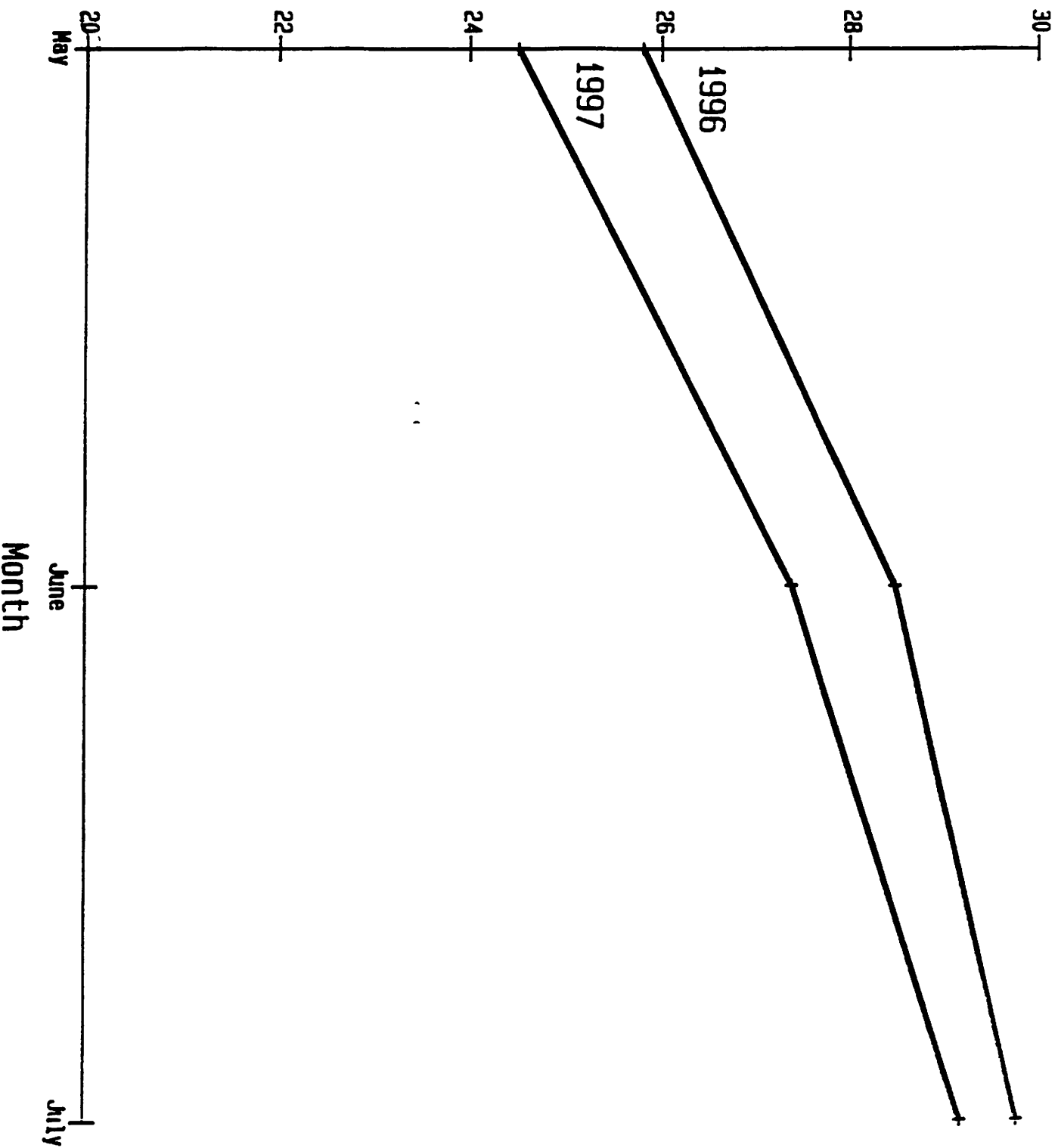


Oysters Available on the Public Grounds  
in Coastal Study Area II  
(Seed and Sack Oysters Combined)



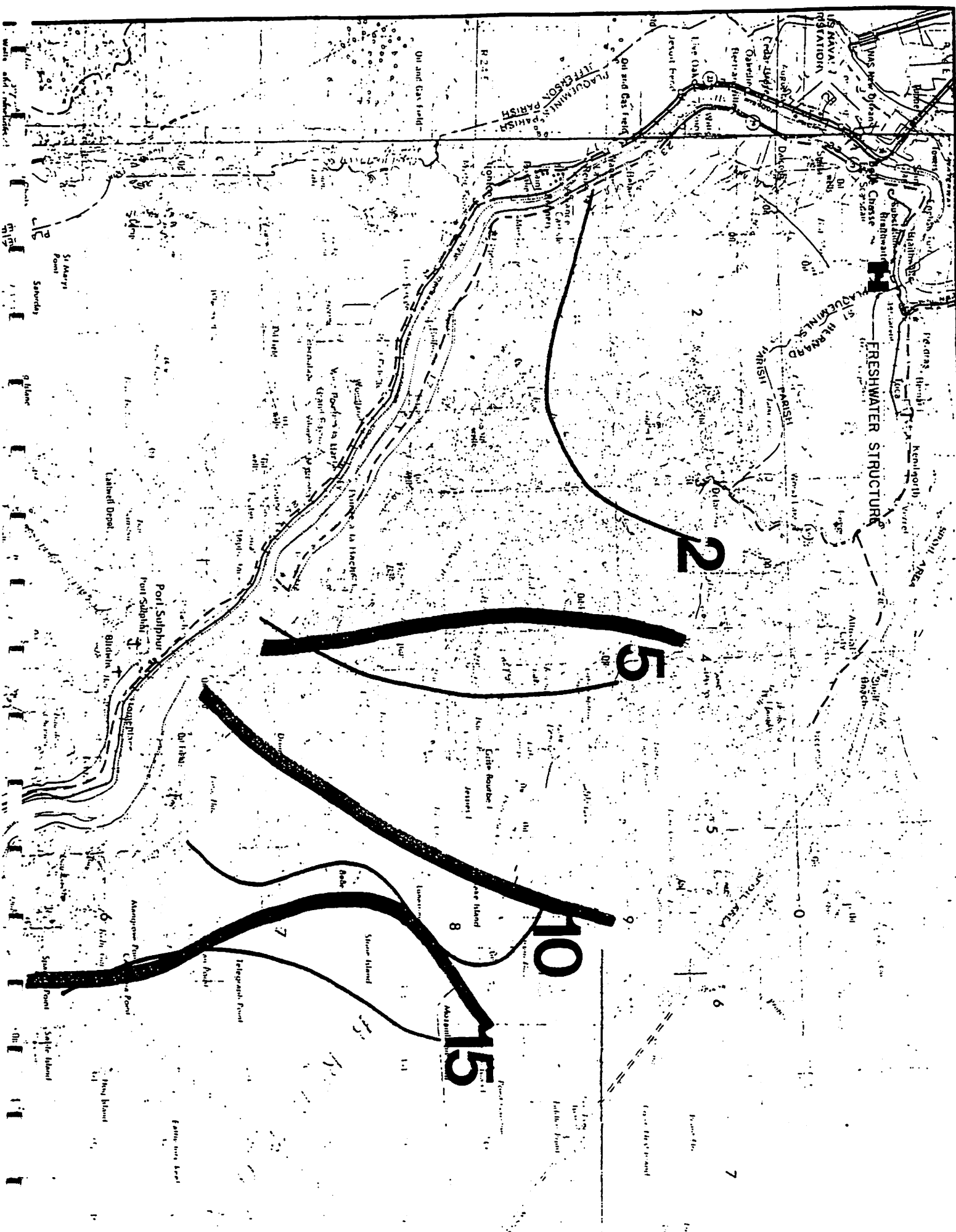
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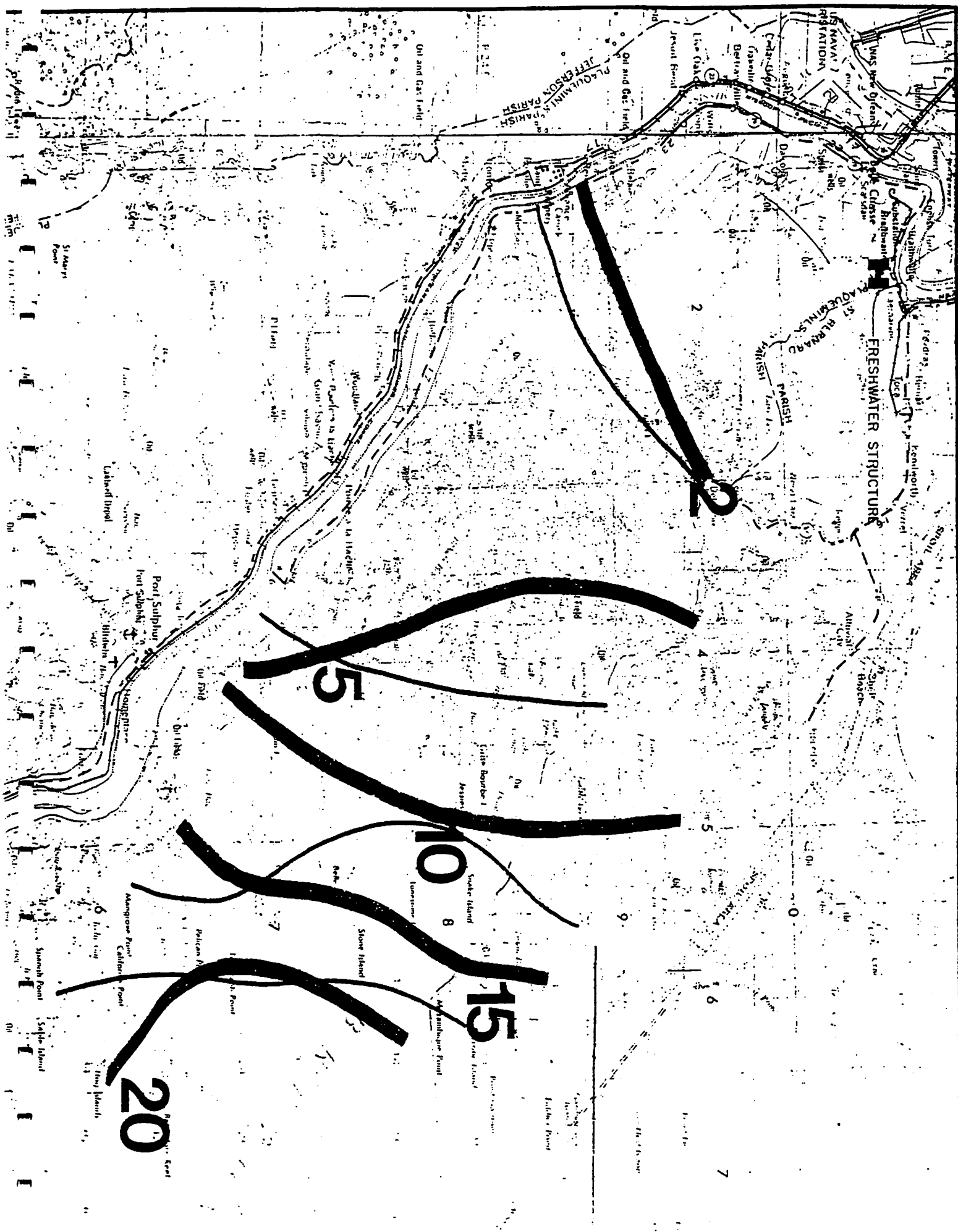
Temperature  
(Degrees Celcius)



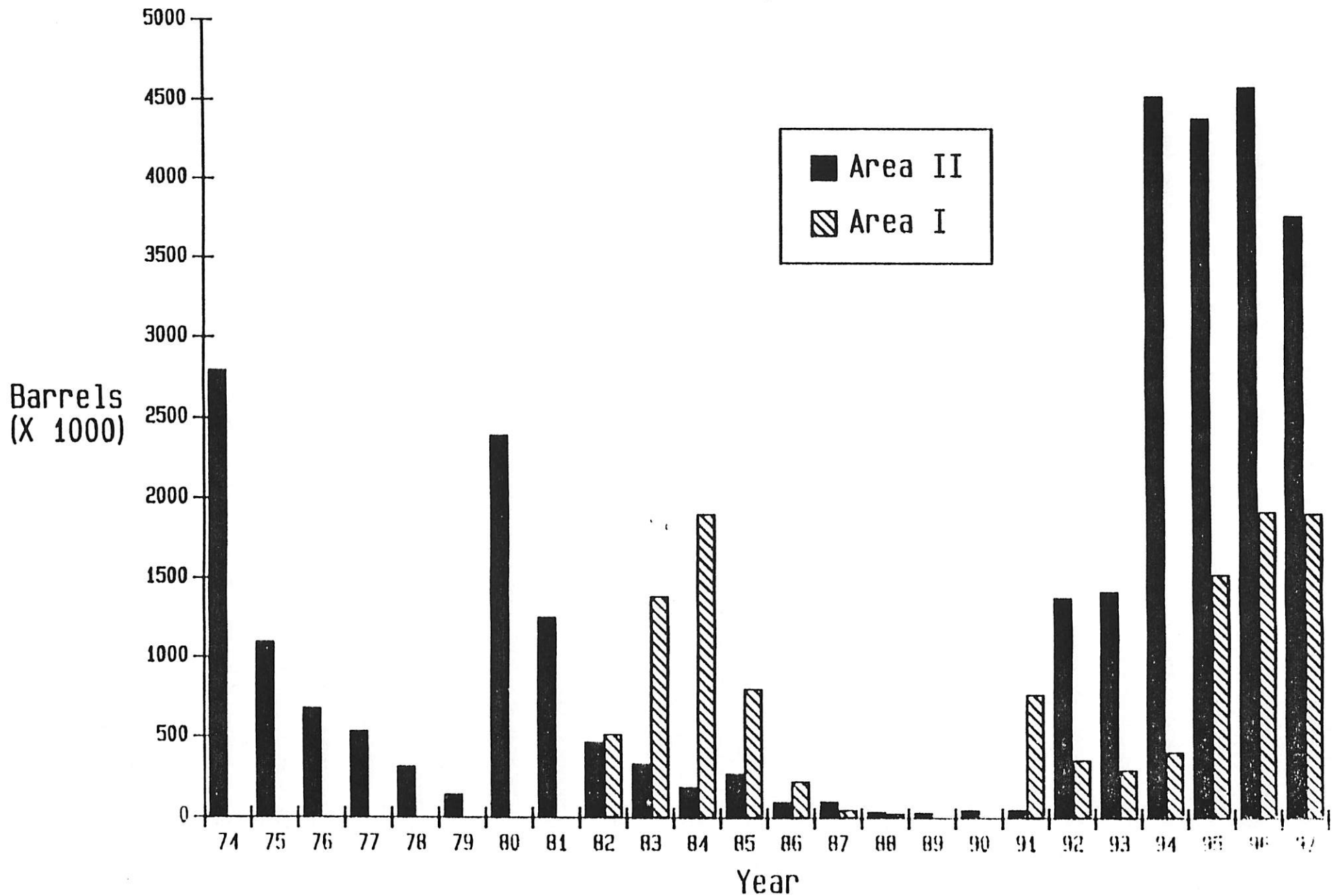








Oysters Available on the Public Grounds  
East of the Mississippi River  
(Seed and Sack Oysters Combined)



**COASTAL STUDY AREA III**  
**RANDY PAUSINA**

HACKBERRY BAY

38  
4

AREA 3

M<sup>2</sup>. 1997

S=SPAT

SEED

SACK

M=MUSSELS

31  
1



Hackberry Bay sample sites	June 25, 1997		
	concrete	N 29° 25.480'	
		W 90° 01.592'	
	steamed	N 29° 25.271'	
		W 90° 01.868'	
	reef	N 29° 25.261'	
		W 90° 01.702'	
	mixed	N 29° 25.244'	
		W 90° 01.528'	
	kent	N 29° 25.300'	
		W 90° 01.335'	
	baham	N 29° 25.200'	
		W 90° 01.365'	
	Mid	N 29° 24.055'	
		W 90° 02.141'	
	Lower	N 29° 23.561'	
		W 90° 02.736'	

# Hackberry Meter Squared

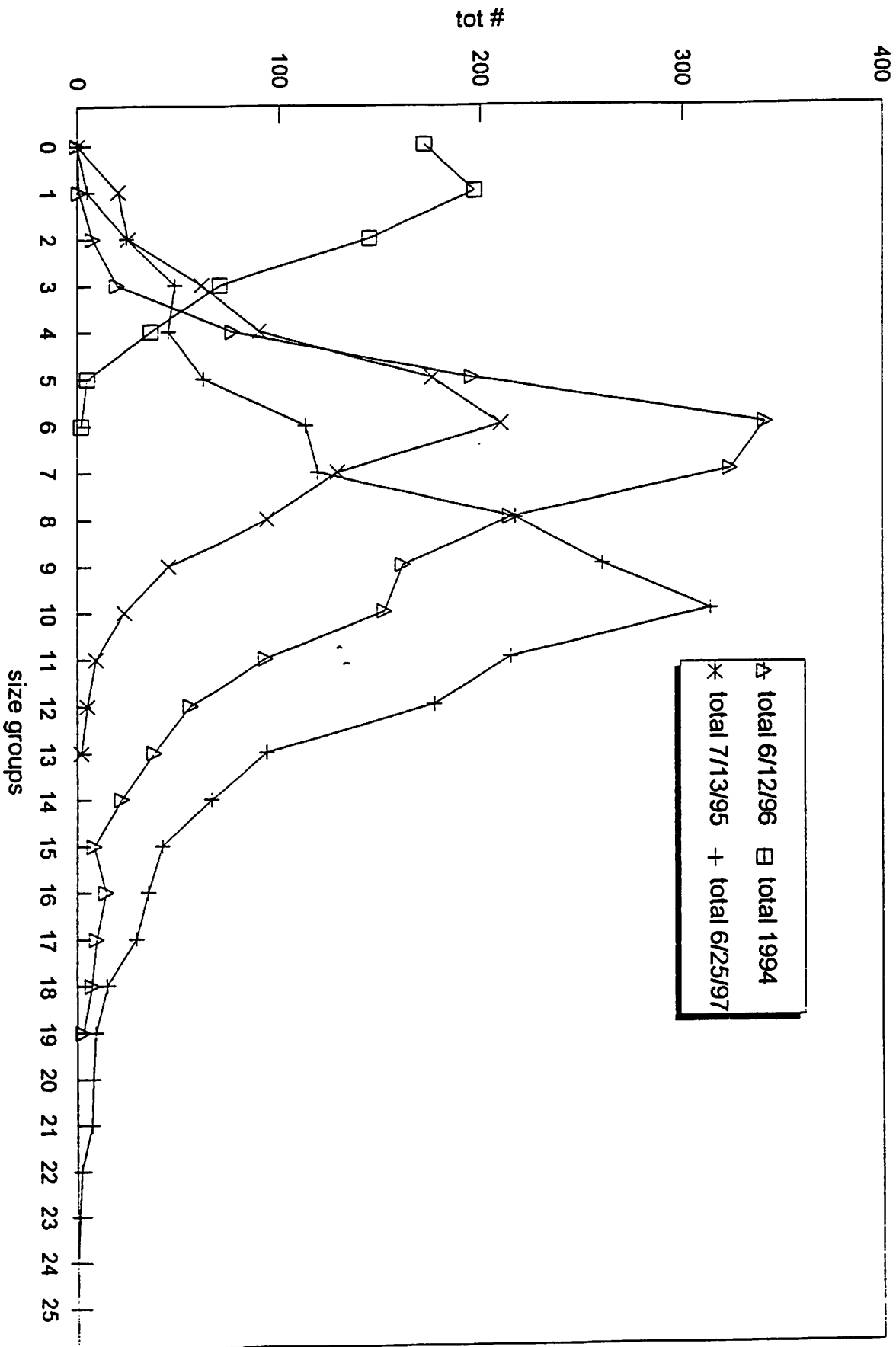
June 25, 1897

CSA 3

mm	work groups	Concrete	Steamed	Reel	tot	tot	tot	combined
0.4	0	2	3	2	3	0	0	1897
3.9	1	1	1	2	2	0	3	5
10.14	2	1	1	1	3	0	3	5
15.18	3	5	1	1	7	0	11	24
20.24	4	2	2	5	9	0	15	46
25.28	5	5	2	4	11	0	20	45
30.34	6	4	3	10	17	0	27	62
35.38	7	5	3	5	15	0	36	113
40.44	8	7	4	2	13	0	40	118
45.48	9	10	5	22	27	0	47	260
50.54	10	8	6	23	35	0	52	312
55.59	11	8	10	26	38	0	59	414
60.64	12	11	13	27	41	0	64	477
65.68	13	12	16	27	45	0	69	544
70.74	14	13	17	31	49	0	74	617
75.78	15	14	18	33	51	0	79	686
80.84	16	16	20	35	55	0	84	755
85.89	17	17	22	37	59	0	89	824
90.94	18	18	25	40	63	0	94	893
95.98	19	19	27	42	67	0	99	962
100.104	20	20	30	45	71	0	104	1031
105.108	21	21	33	48	75	0	109	1100
110.114	22	22	36	51	79	0	114	1169
115.119	23	23	39	54	83	0	119	1238
120.124	24	24	42	57	87	0	124	1307
125.129	25	25	45	60	91	0	129	1376
sub totals		60	89	182	331	0	693	1897
tot	74	83	88	82	106	65	105	
ave	2.96	3.33	3.52	3.33	3.44	2.58	3.33	
work groups	1	Mixed	Kent Lime	Bahian Lime	tot	tot	tot	
0.4	0	2	3	2	3	0	0	
5.9	1	1	1	1	1	0	0	
10.14	2	1	1	1	1	0	0	
15.18	3	1	1	1	1	0	0	
20.24	4	1	1	1	1	0	0	
25.28	5	1	1	1	1	0	0	
30.34	6	1	1	1	1	0	0	
35.38	7	1	1	1	1	0	0	
40.44	8	1	1	1	1	0	0	
45.48	9	1	1	1	1	0	0	
50.54	10	1	1	1	1	0	0	
55.59	11	1	1	1	1	0	0	
60.64	12	1	1	1	1	0	0	
65.68	13	1	1	1	1	0	0	
70.74	14	1	1	1	1	0	0	
75.78	15	1	1	1	1	0	0	
80.84	16	1	1	1	1	0	0	
85.89	17	1	1	1	1	0	0	
90.94	18	1	1	1	1	0	0	
95.98	19	1	1	1	1	0	0	
100.104	20	1	1	1	1	0	0	
105.108	21	1	1	1	1	0	0	
110.114	22	1	1	1	1	0	0	
115.119	23	1	1	1	1	0	0	
120.124	24	1	1	1	1	0	0	
125.129	25	1	1	1	1	0	0	
sub totals		78	156	223	187	55	51	
tot	92	113	146	109	176	52	47	
ave	3.68	4.92	4.64	4.36	4.6	2.08	3.7	
work groups	1	Mixed	Kent Lime	Bahian Lime	tot	tot	tot	
0.4	0	2	3	2	3	0	0	
5.9	1	1	1	1	1	0	0	
10.14	2	1	1	1	1	0	0	
15.18	3	1	1	1	1	0	0	
20.24	4	1	1	1	1	0	0	
25.28	5	1	1	1	1	0	0	
30.34	6	1	1	1	1	0	0	
35.38	7	1	1	1	1	0	0	
40.44	8	1	1	1	1	0	0	
45.48	9	1	1	1	1	0	0	
50.54	10	1	1	1	1	0	0	
55.59	11	1	1	1	1	0	0	
60.64	12	1	1	1	1	0	0	
65.68	13	1	1	1	1	0	0	
70.74	14	1	1	1	1	0	0	
75.78	15	1	1	1	1	0	0	
80.84	16	1	1	1	1	0	0	
85.89	17	1	1	1	1	0	0	
90.94	18	1	1	1	1	0	0	
95.98	19	1	1	1	1	0	0	
100.104	20	1	1	1	1	0	0	
105.108	21	1	1	1	1	0	0	
110.114	22	1	1	1	1	0	0	
115.119	23	1	1	1	1	0	0	
120.124	24	1	1	1	1	0	0	
125.129	25	1	1	1	1	0	0	
sub totals		78	156	223	187	55	51	
tot	92	113	146	109	176	52	47	
ave	3.68	4.92	4.64	4.36	4.6	2.08	3.7	
work groups	1	Mixed	Kent Lime	Bahian Lime	tot	tot	tot	
0.4	0	2	3	2	3	0	0	
5.9	1	1	1	1	1	0	0	
10.14	2	1	1	1	1	0	0	
15.18	3	1	1	1	1	0	0	
20.24	4	1	1	1	1	0	0	
25.28	5	1	1	1	1	0	0	
30.34	6	1	1	1	1	0	0	
35.38	7	1	1	1	1	0	0	
40.44	8	1	1	1	1	0	0	
45.48	9	1	1	1	1	0	0	
50.54	10	1	1	1	1	0	0	
55.59	11	1	1	1	1	0	0	
60.64	12	1	1	1	1	0	0	
65.68	13	1	1	1	1	0	0	
70.74	14	1	1	1	1	0	0	
75.78	15	1	1	1	1	0	0	
80.84	16	1	1	1	1	0	0	
85.89	17	1	1	1	1	0	0	
90.94	18	1	1	1	1	0	0	
95.98	19	1	1	1	1	0	0	
100.104	20	1	1	1	1	0	0	
105.108	21	1	1	1	1	0	0	
110.114	22	1	1	1	1	0	0	
115.119	23	1	1	1	1	0	0	
120.124	24	1	1	1	1	0	0	
125.129	25	1	1	1	1	0	0	
sub totals		78	156	223	187	55	51	
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ave	3.68	4.92	4.64	4.36	4.6	2.08	3.7	
work groups	1	Mixed	Kent Lime	Bahian Lime	tot	tot	tot	
0.4	0	2	3	2	3	0	0	
5.9	1	1	1	1	1	0	0	
10.14	2	1	1	1	1	0	0	
15.18	3	1	1	1	1	0	0	
20.24	4	1	1	1	1	0	0	
25.28	5	1	1	1	1	0	0	
30.34	6	1	1	1	1	0	0	
35.38	7	1	1	1	1	0	0	
40.44	8	1	1	1	1	0	0	
45.48	9	1	1	1	1	0	0	
50.54	10	1	1	1	1	0	0	
55.59	11	1	1	1	1	0	0	
60.64	12	1	1	1	1	0	0	
65.68	13	1	1	1	1	0	0	
70.74	14	1	1	1	1	0	0	
75.78	15	1	1	1	1	0	0	
80.84	16	1	1	1	1	0	0	
85.89	17	1	1	1	1	0	0	
90.94	18	1	1	1	1	0	0	
95.98	19	1	1	1	1	0	0	
100.104	20	1	1	1	1	0	0	
105.108	21	1	1	1	1	0	0	
110.114	22	1	1	1	1	0	0	
115.119	23	1	1	1	1	0	0	
120.124	24	1	1	1	1	0	0	
125.129	25	1	1	1	1	0	0	
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0.4	0	2	3	2	3	0	0	
5.9	1	1	1	1	1	0	0	
10.14	2	1	1	1	1	0	0	
15.18	3	1	1	1	1	0	0	
20.24	4	1	1	1	1	0	0	
25.28	5	1	1	1	1	0	0	
30.34	6	1	1	1	1	0	0	
35.38	7	1	1	1	1	0	0	
40.44	8	1	1	1	1	0	0	
45.48	9	1	1	1	1	0	0	
50.54	10	1	1	1	1	0	0	
55.59	11	1	1	1	1	0	0	
60.64	12	1	1	1	1	0	0	
65.68	13	1	1	1	1	0	0	
70.74	14	1	1	1	1	0	0	
75.78	15	1	1	1	1	0	0	
80.84	16	1	1	1	1	0	0	
85.89	17	1	1	1	1	0	0	
90.94	18	1	1	1	1	0	0	
95.98	19	1	1	1	1	0	0	
100.104	20	1	1	1	1	0	0	
105.108	21	1	1	1	1	0	0	
110.114	22	1	1	1	1	0	0	
115.119	23	1	1	1	1	0	0	
120.124	24	1	1	1	1	0	0	
125.129	25	1	1	1	1	0	0	
sub totals		78	156	223	187	55	51	
tot	92	113	146	109	176	52	47	
ave	3.68	4.92	4.64	4.36	4.6	2.08	3.7	
work groups	1	Mixed	Kent Lime	Bahian Lime	tot	tot	tot	
0.4	0	2	3	2	3	0	0	
5.9	1	1	1	1	1	0	0	
10.14	2	1	1	1	1	0	0	
15.18	3	1	1	1	1	0	0	
20.24	4	1	1	1	1	0	0	
25.28	5	1	1	1	1	0	0	
30.34	6	1	1	1	1	0	0	
35.38	7	1	1	1	1	0	0	

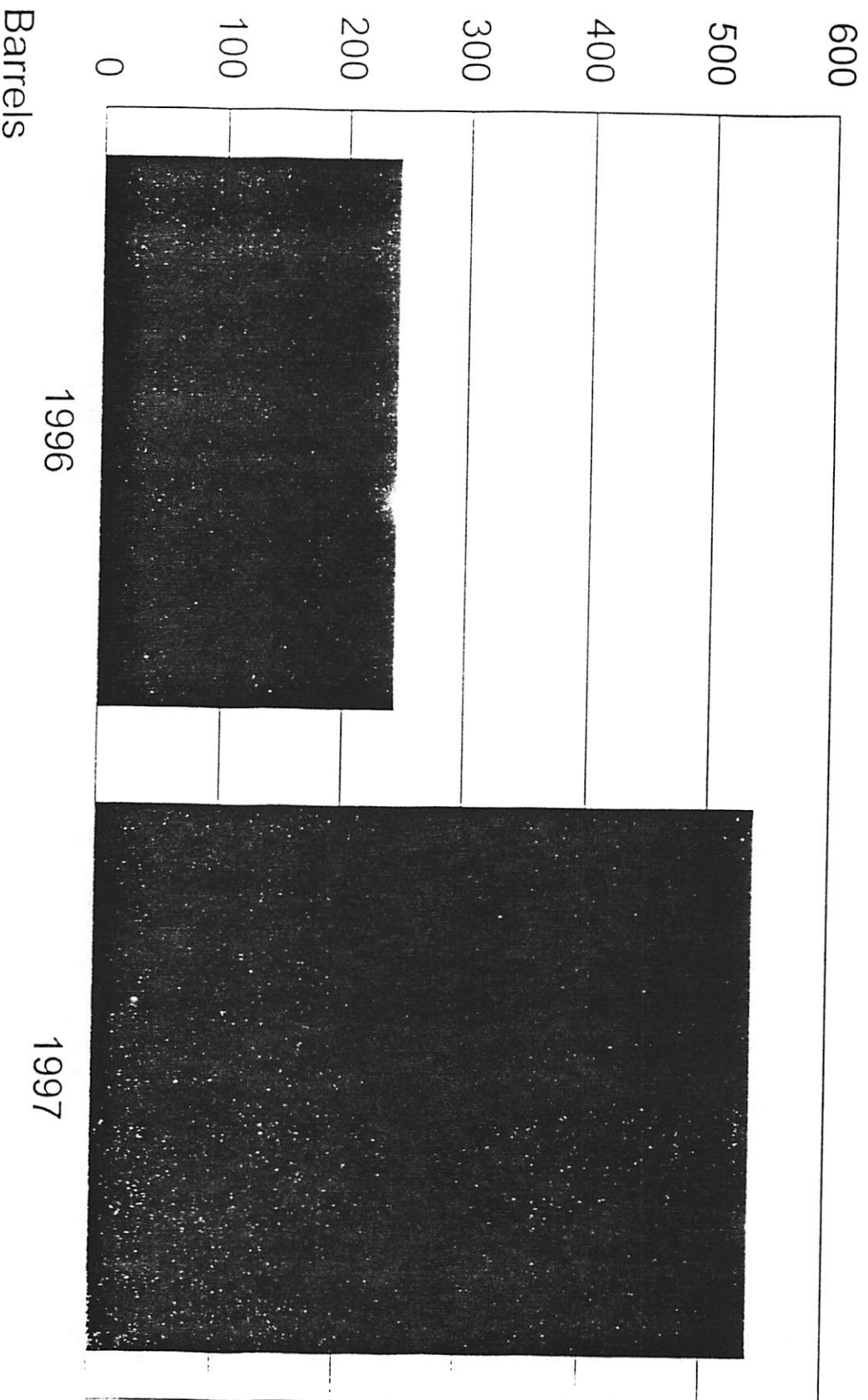


# Hackberry Bay



# OYSTER AVAILABILITY

Hackberry Bay



		Number of					
		Mid			Lower		
mm	work group	1	2	3	1	2	3
0-4	0						
5-9	1						
10-14	2						
15-19	3						
20-24	4			1			
25-29	5						
30-34	6	1				2	
35-39	7	3	6		1	2	
40-44	8	2	5	1		2	
45-49	9	3	8	3	4	1	2
50-54	10	4	9	2	1	1	1
55-59	11	1	1	2		1	
60-64	12	1	5	1	1	2	
65-69	13	1	3	1	1	1	
70-74	14						
75-79	15	1	1	1	1	1	1
80-84	16						
85-89	17		1	2	2		
90-94	18				1	1	
95-99	19						
100-104	20		1				
105-109	21		1				
sub totals		16	41	12	10	13	3
totals			69			26	
ave			23			8.666667	
tot >= 1"		16	41	11	10	13	3
tot			68			26	
ave >= 1"			22.66667			8.666667	

SEED  
13.83  
5.11K  
1.83

Blackberry Meter Squared  
June 12, 1906

[illegible]

**COASTAL STUDY AREA V**  
**MARTY BOURGEOIS**  
**PAUL MEIER**

# State of Louisiana



James H. Jenkins, Jr.  
Secretary

Department of Wildlife and Fisheries  
Post Office Box 189  
Bourg, LA 70343  
(504)594-4139

M.J. "Mike" Foster  
Governor

July 23, 1997

## MEMORANDUM

TO: Ron Dugas, Oyster Program Manager  
FROM: Paul Meier, CSA-V Senior Field Biologist *PM*  
SUBJECT: CSA-V Oyster Meter Square Samples

On July 8 and 9, 1997, Martin Bourgeois, Steve Hein, Randy Pausina and I completed the oyster meter square samples on the Sister Lake and Bay Junop Oyster Seed Reservations. A total of nine stations were sampled in Sister Lake, including the 1994 and 1995 shell plants, and five stations were sampled in Bay Junop.

The number of barrels of seed and sack oysters available for harvest in Sister Lake has increased based on the results of the meter square samples even though Sister Lake has been open to harvest for the past two seasons with a two year total harvest of 160,058 barrels of seed and sack removed during the 1995-96 and 1996-97 seasons. The estimated oysters available on the 1994 shell plant last year was 457,049 barrels and this year it has increased to 481,964 (see enclosed tables). The total amount of oysters available in Sister Lake, including the 1994 and 1995 shell plants, is 540,270.2 barrels of seed oysters and 557,072.2 barrels of sack oysters.

While the amount of oysters available in Sister Lake has increased, the amount in Bay Junop has decreased. There are approximately 17,262 barrels of seed oysters and 29,243 barrels of sack oysters available in Bay Junop this year. Last year we had approximately 62,841 barrels of seed and 117,669 barrels of sack oysters available. There was almost three times the effort by boats harvesting oysters in Bay Junop last season than we normally experience so the reefs were worked fairly hard.

We have not experienced any hooked mussel infestations on the seed grounds in our area as they have east of the Mississippi River according to Bob. Dr. Tom Soniat indicated that there were no detrimental levels of "dermo" in our oyster samples from Sister Lake and Bay Junop. Salinities have been averaging at or below 5 ppt in the upper portion of Sister Lake for the past three months.

If you need any additional information, please let me know.

PM/jbv

# 1997 SISTER LAKE OYSTER AVAILABILITY

METER <sup>2</sup> STATION	REEF ACREAGE	# METER <sup>2</sup>	# SEED OYSTERS	# SACK OYSTERS	BARRELS SEED	BARRELS SACK
200	221.58	896,734.26	54.5	36.0	67,877.8	89,673.4
202	81.93	331,570.71	43.5	14.0	20,032.4	12,894.4
207	185.72	751,608.84	24.5	9.0	25,575.6	18,790.2
203	151.31	612,352.00	27.5	7.5	23,388.4	12,757.3
TOTALS					136,874.2	134,115.3

# 1997 BAY JUNOP OYSTER AVAILABILITY

METER <sup>2</sup> STATION	REEF ACREAGE	# METER <sup>2</sup>	# SEED OYSTERS	# SACK OYSTERS	BARRELS SEED	BARRELS SACK
251	17.2	69,608.40	10.5	8.5	1,015	1,643
253	73.26	296,483.22	14.0	6.5	5,765	5,353
254	94.20	381,227.40	10.5	13.5	5,560	14,296
252	67.36	272,605.92	13.0	10.5	4,922	7,951
255						
TOTALS					17,262	29,243



1997 OYSTER AVAILABILITY  
1994 COASTAL STUDY AREA V SHELLPLANTS

SEED OYSTERS

SHELLPLANT	ACRES	# OYSTERS	BARRELS SEED
North	96	174.0	93,890.4
Mid	129	103.5	75,046.6
South	81	112.5	51,219.8

TOTAL = 220,156.8

SACK OYSTERS

SHELLPLANT	ACRES	# OYSTERS	BARRELS SACK
North	96	110.0	118,712.0
Mid	129	61.0	88,461.0
South	81	60.0	54,634.5

TOTAL = 261,807.5

1997 OYSTER AVAILABILITY  
1995 COASTAL STUDY AREA V SHELLPLANTS

SEED OYSTERS

SHELLPLANT	ACRES	# OYSTERS	BARRELS SEED
North	115	74.0	47,833.3
Camp	438	55.0	135,405.9

TOTAL = 183,239.2

SACK OYSTERS

SHELLPLANT	ACRES	# OYSTERS	BARRELS SACK
North	115	58.0	74,982.0
Camp	438	17.5	86,167.4

TOTAL = 161,149.4

GRAND PASS

54  
36

WALKER'S POINT

44  
14

24  
9

BAY VOISIN

GRAND LAVOU  
DULARGE

28  
8



CAILLOU LAKE

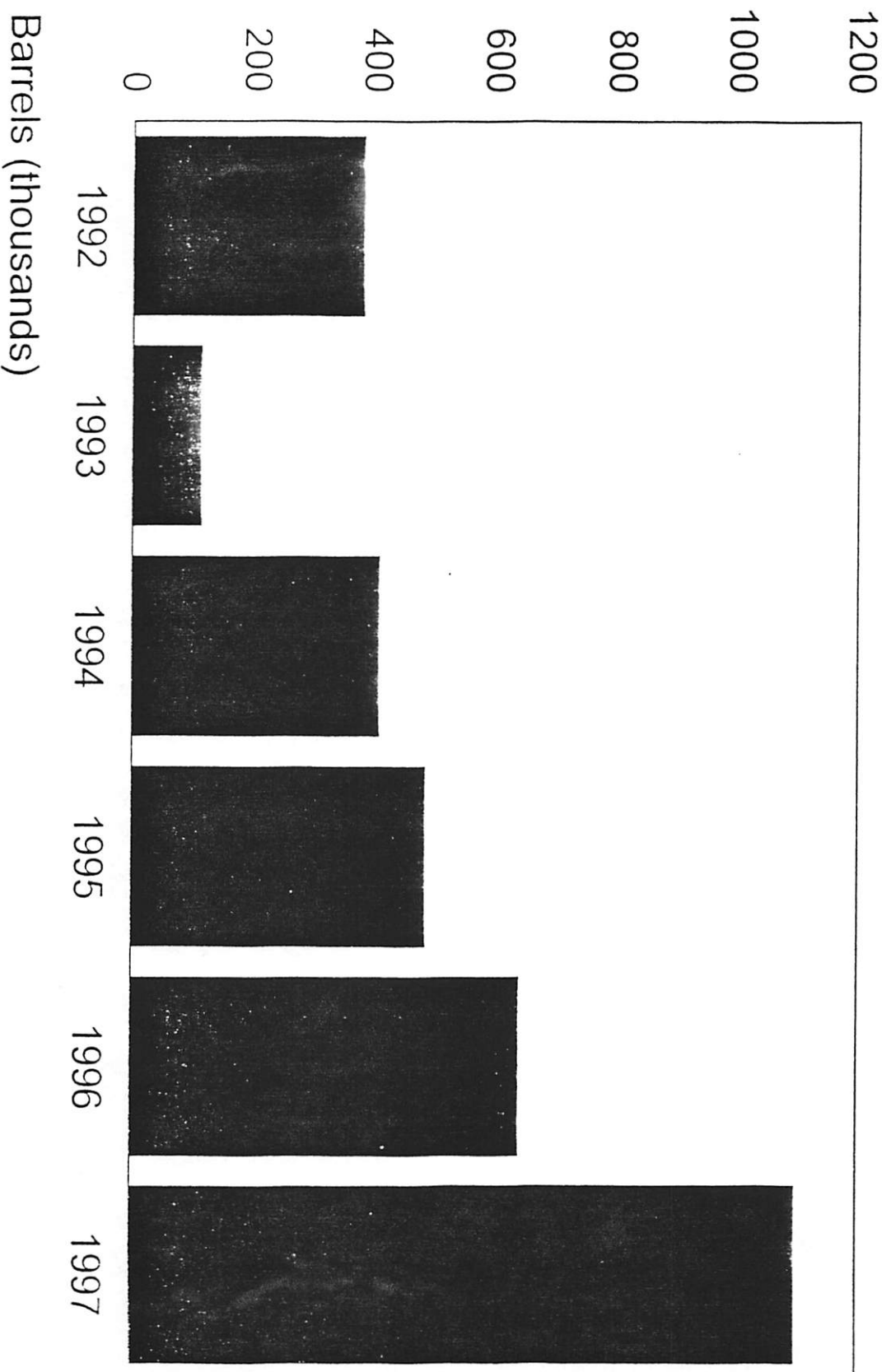
MILE PASS

AREA V  
M<sup>2</sup> 1997  
S = SPAT  
SEED  
SACK  
M = MUSSELS

PORTOISE  
CUI

# OYSTER AVAILABILITY

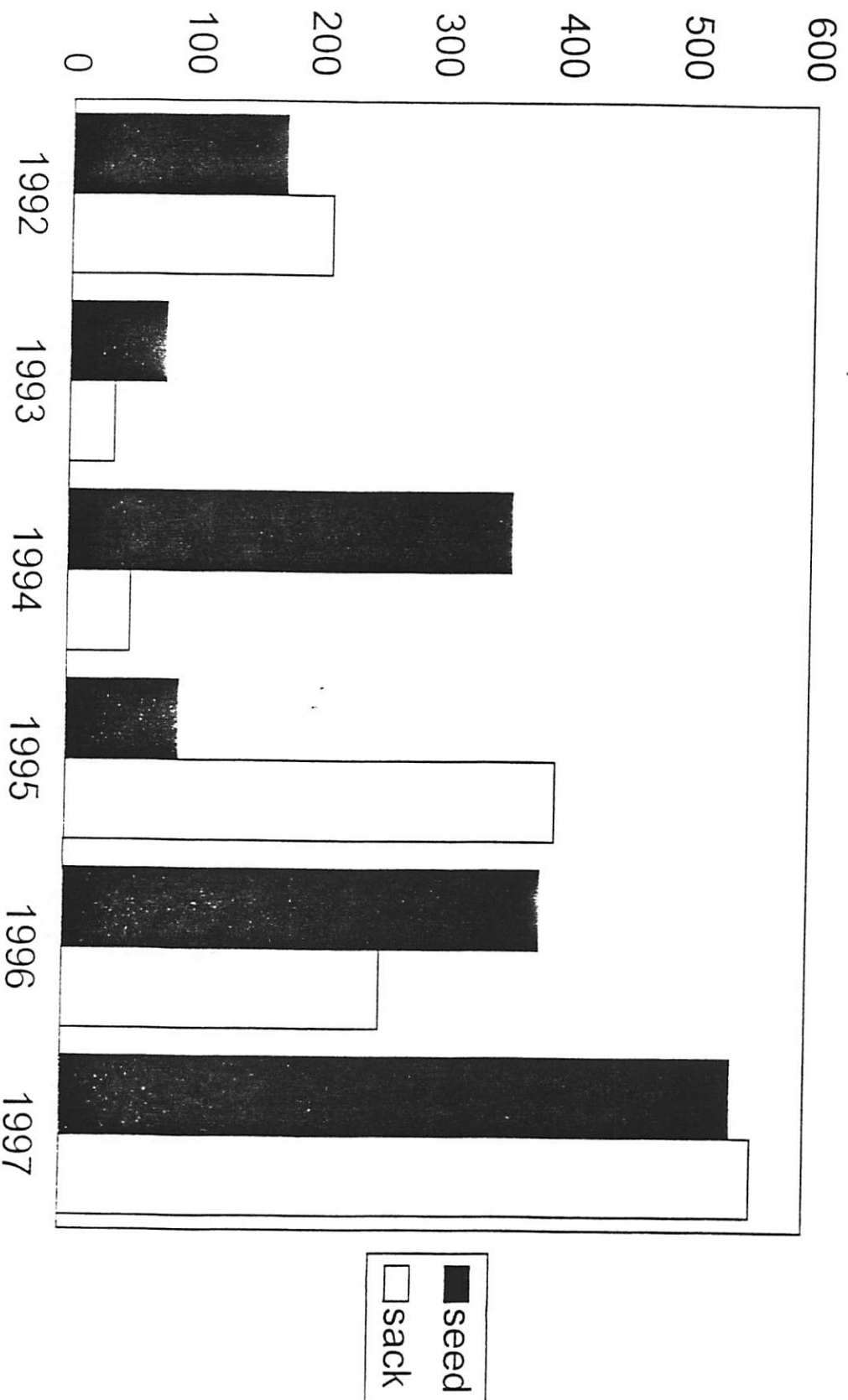
## SISTER LAKE

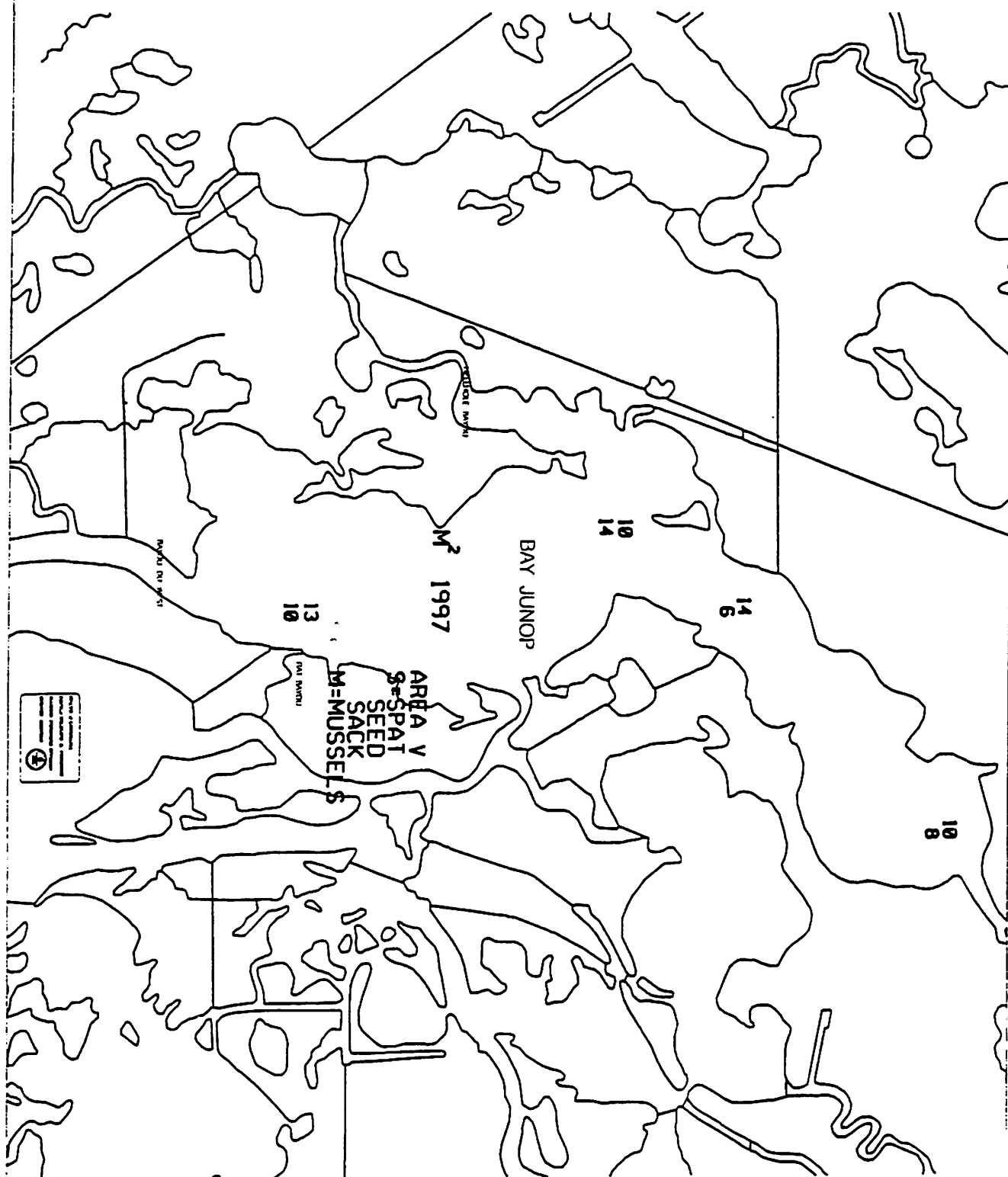


# OYSTER AVAILABILITY

Barrels (thousands)

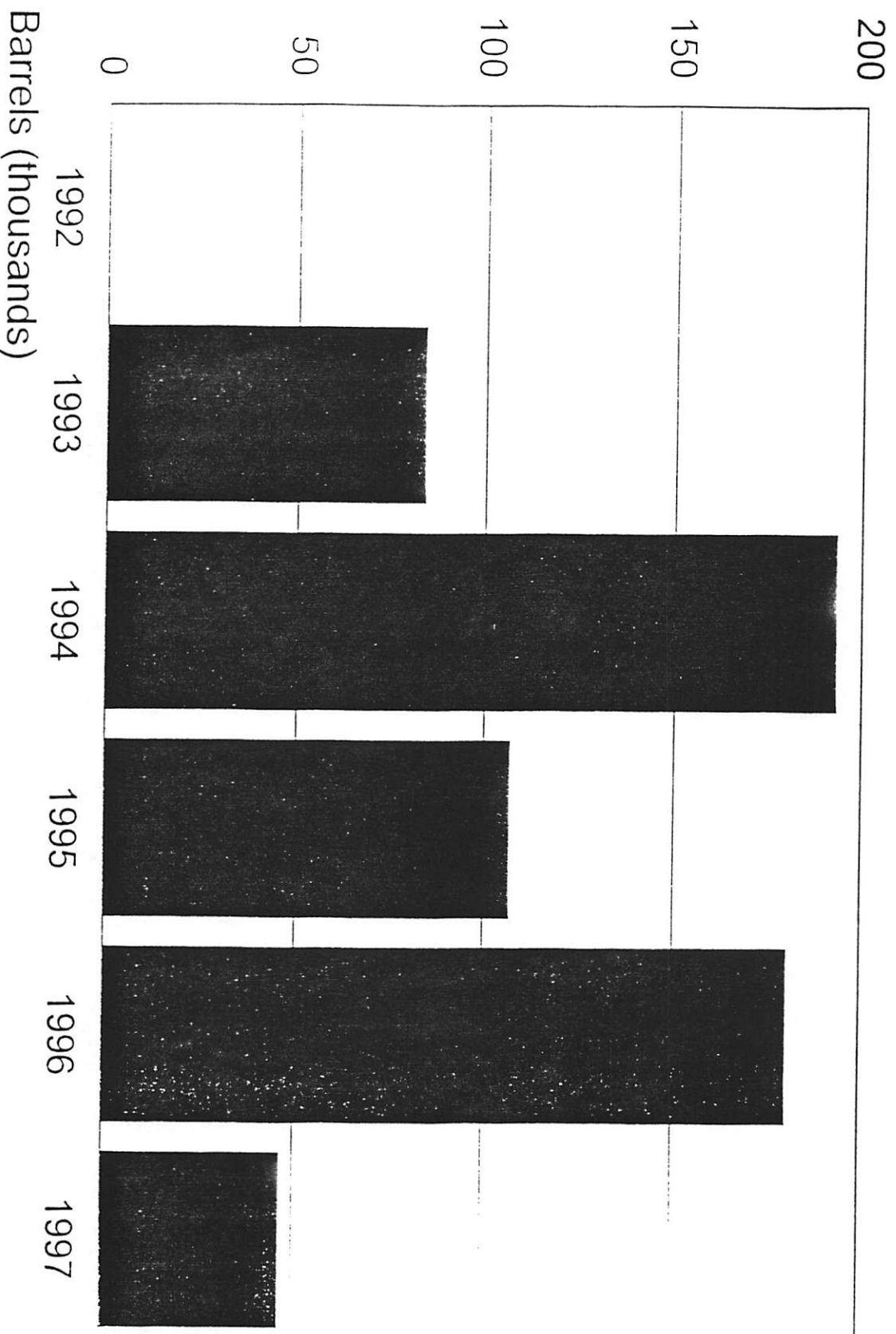
SISTER LAKE





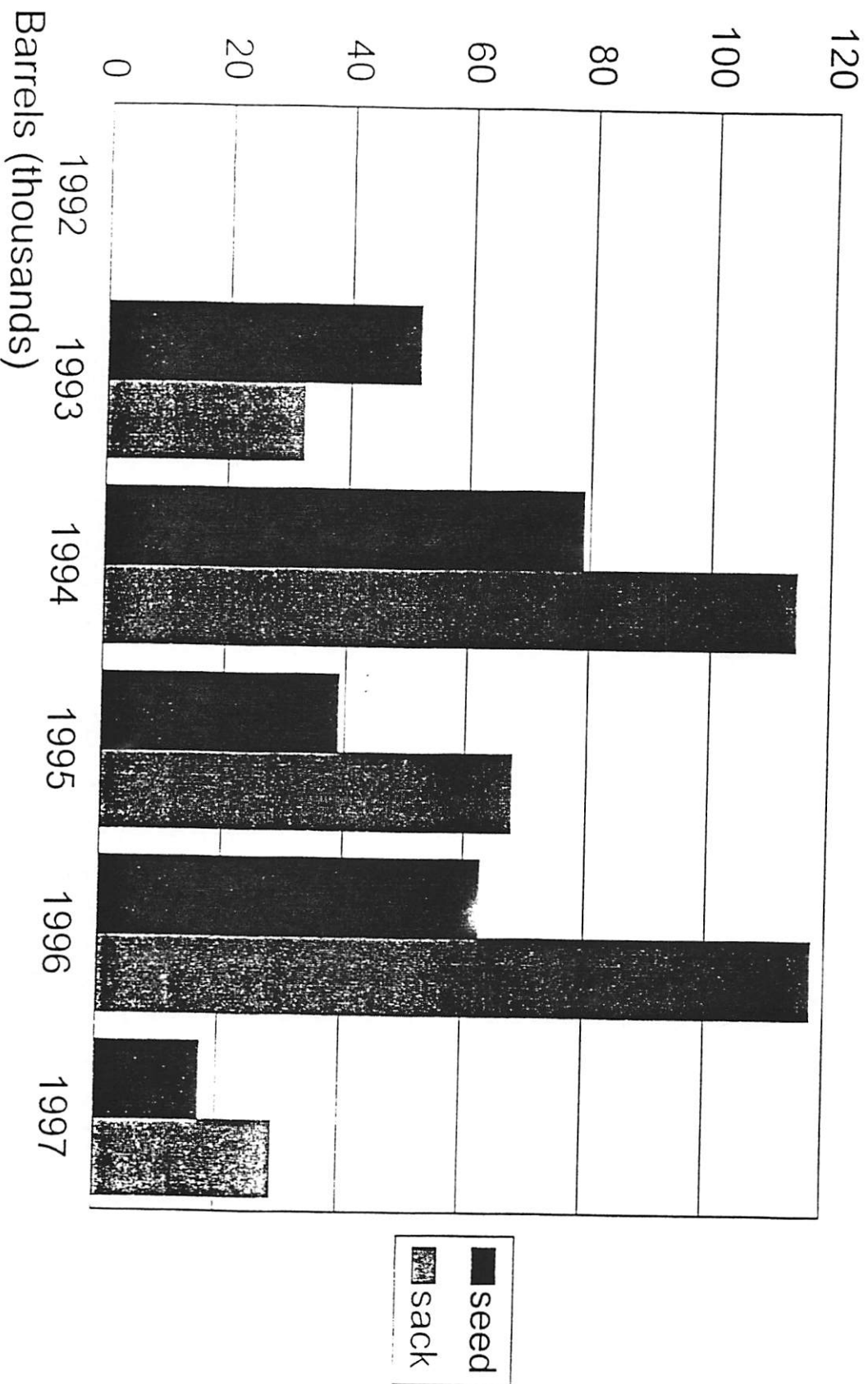
# OYSTER AVAILABILITY

Bay Junop



# OYSTER AVAILABILITY

Bay Junop





# State of Louisiana



James H. Jenkins, Jr.  
Secretary

Department of Wildlife and Fisheries  
Post Office Box 189  
Bourg, LA 70343  
(504)594-4139

M.J. "Mike" Foster  
Governor

July 30, 1997

## Memorandum:

TO: Ron Dugas, Programs Manager

FROM: Martin Bourgeois, CSA-V *MFB 5493*

SUBJECT: Results of oyster dredge samples - North Sister Lake

Please be advised that 2' oyster dredge samples taken today in North Sister Lake (Grand Pass, North 1995 shell plant and Walker's Pt.) indicate very little mortality and compare favorably with dredge samples taken in May and June as well as with meter square samples taken in early July. Percent mortality measured in samples is as follows:

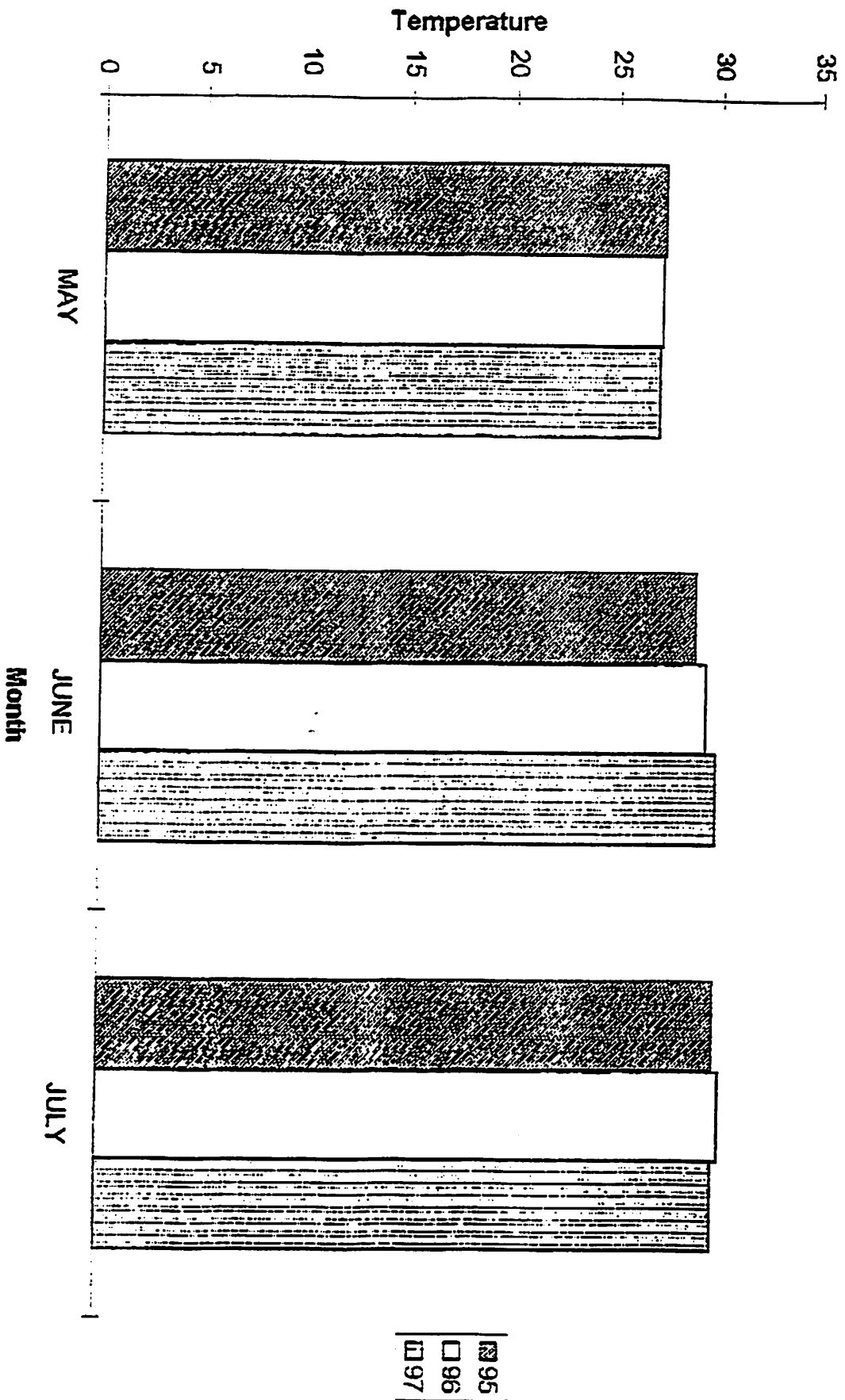
Grand Pass	8.3%
North 1995 shell plant	7.4%
Walker's Pt.	4.3%

Additionally, salinities at these three stations measured 6.2 ppt, 11.0 ppt and 14.6 ppt, respectively. Water temperatures remain within seasonal norms and no depressed oxygen concentrations were discovered.

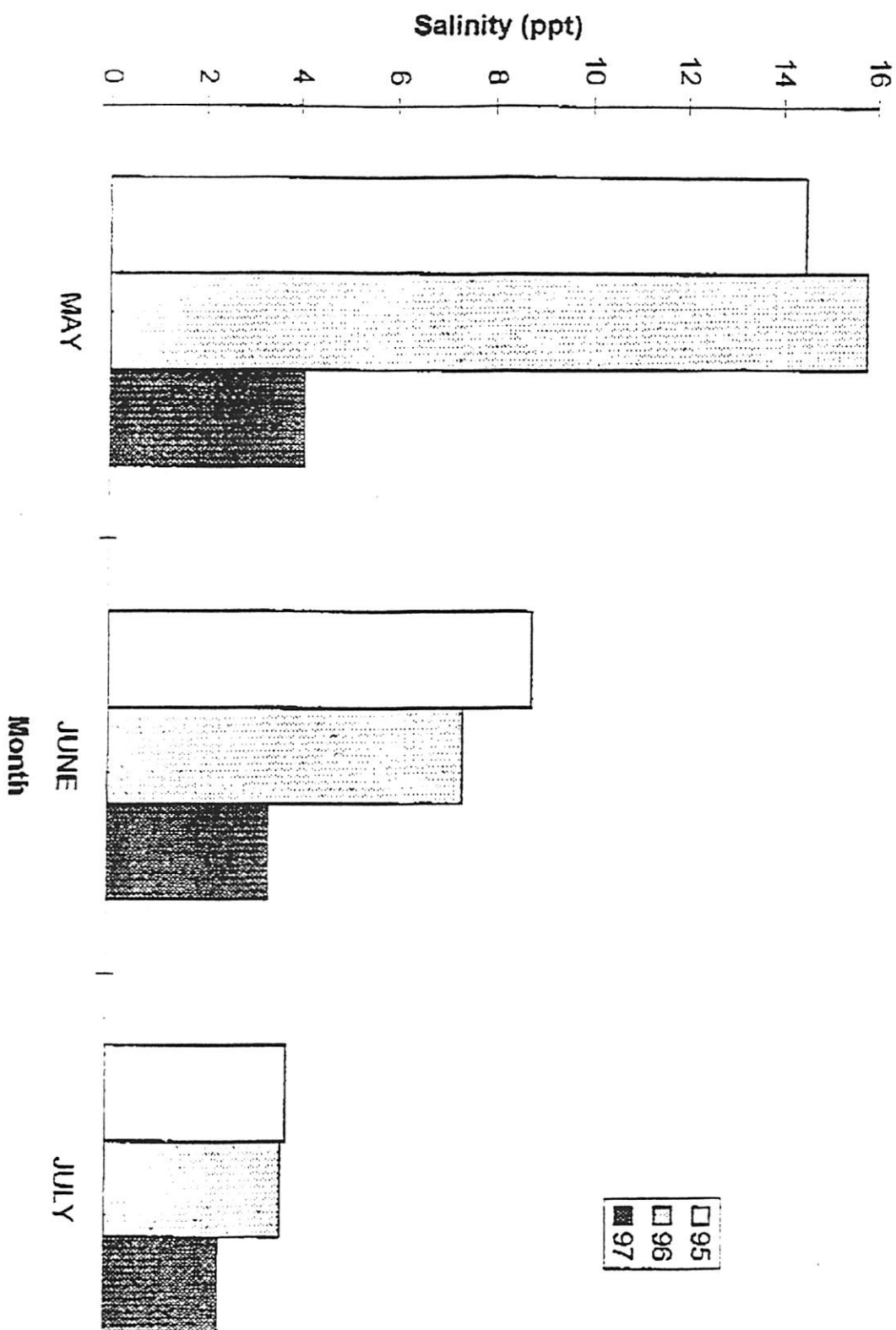
However, blue crab trap mortalities have become increasingly prevalent within the area recently with some reports of levels approaching 50%. These same reports also indicate that mortalities are not occurring every day but most likely are associated with heavy rains or cloudy days.

Please advise if you have any questions or require any additional information.

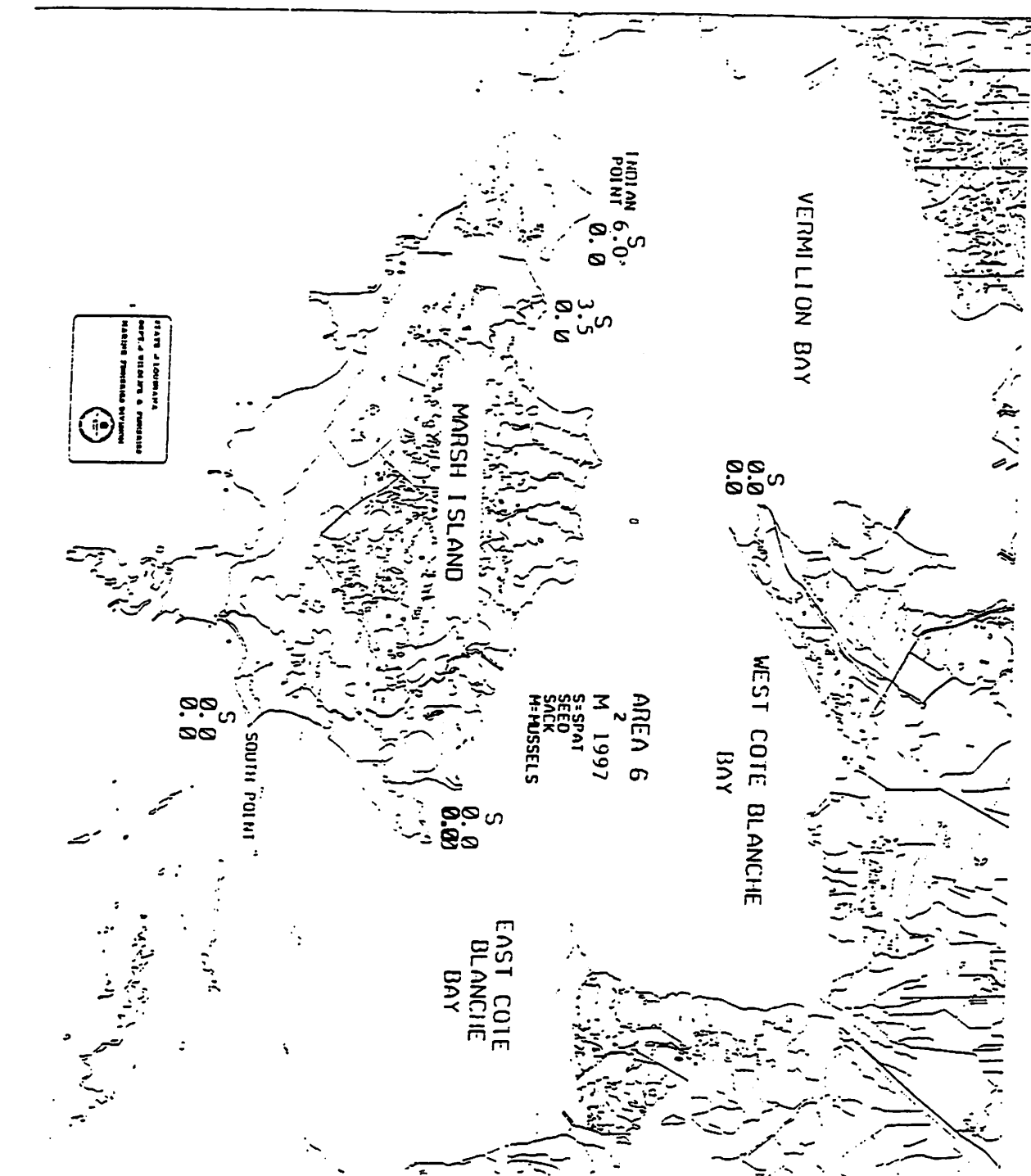
# North Sister Lake Temperature



# North Sister Lake Salinity



**COASTAL STUDY AREA VI**  
**PETE JUNEAU**



**COASTAL STUDY AREA VII**  
**DUDLEY CARVER**

# OYSTER PRODUCTION IN CALCASIEU LAKE AUGUST 1997

## OYSTER NUMBERS

WESTSIDE					EASTSIDE				
SIZE	STATION			AVE.	SIZE	STATION			AVE.
	4	5	6			1	2	3	
> 3"	22	29	62	18.8	> 3"	88	59	31	29.7
1-3"	53	105	88	41.0	1-3"	128	54	51	38.8

## OYSTER PRODUCTION AREA

WESTSIDE	EASTSIDE
2,942,076.67 SQ. METERS	3,901,185.57 SQ. METERS

## PRODUCTION OF > 3" OYSTERS

WESTSIDE		EASTSIDE	
OYSTERS:	55,311,041.396	OYSTERS:	115,865,211.429
SACKS:	307.283.6	SACKS:	643.695.6
TOTAL SACKS OF > 3" OYSTERS:		950.979.2	

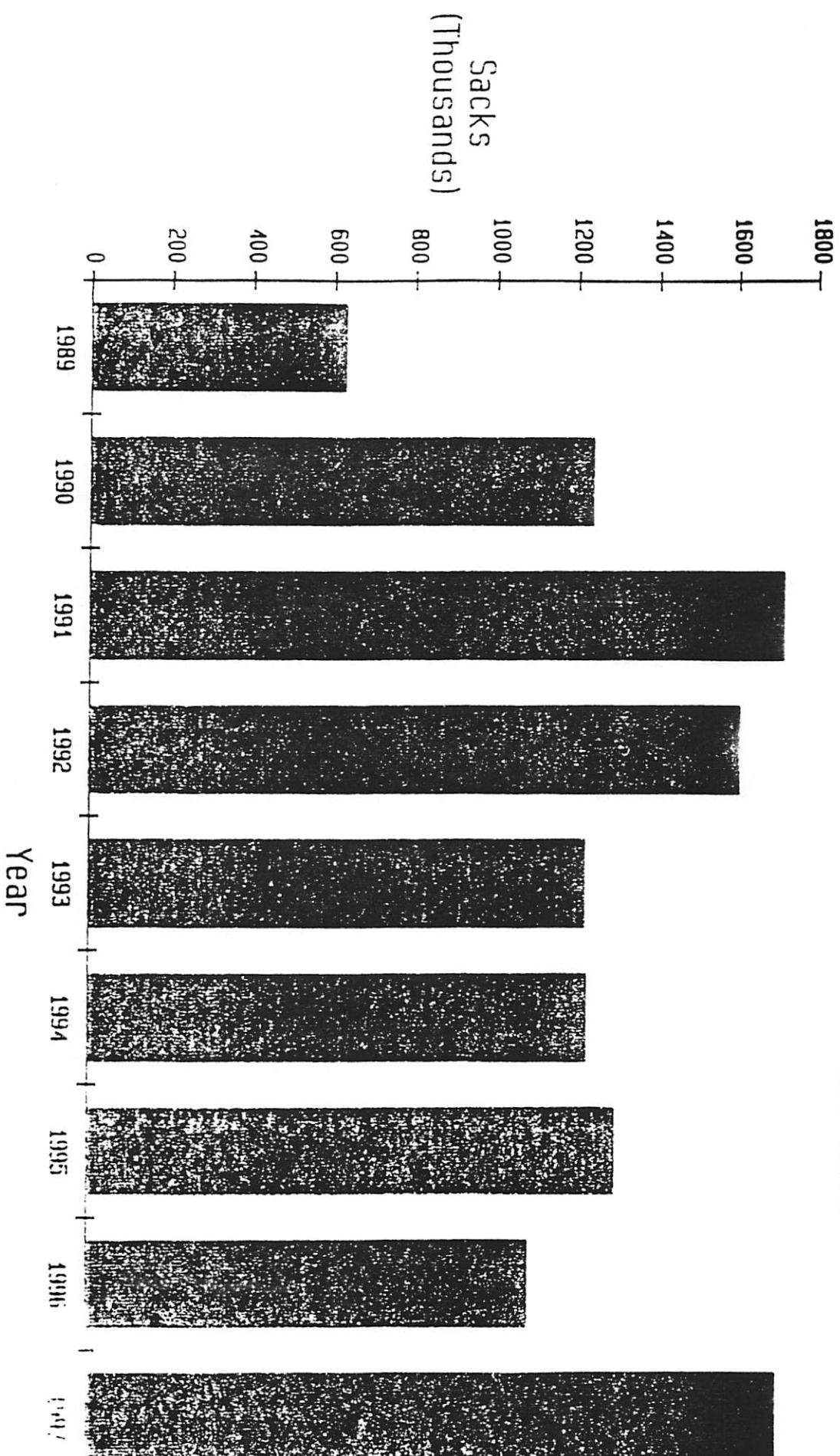
## PRODUCTION OF 1-3" OYSTERS

WESTSIDE		EASTSIDE	
OYSTERS:	120.625,143.470	OYSTERS:	151,366,000.116
SACKS:	335.069.8	SACKS:	420.461.1
TOTAL SACKS OF 1-3" OYSTERS:		755.530.9	

## TOTAL PRODUCTION

TOTAL OVERALL POTENTIAL OF OYSTERS (SACKS):	1.706.510.1
---	-------------

# OYSTER AVAILABILITY - CALCASIEU LAKE





**COMMISSION ACTION & ORDERS**

CSA's  
Survey

Larry Harrison  
Maurine L. AB

OPSS

# RESOLUTION

1997/98 Season on the Public Oyster Grounds  
Adopted by the  
Louisiana Wildlife and Fisheries Commission  
August, 1997  
Louisiana Department of Wildlife and Fisheries

WHEREAS, R.S. 56:433 provides that the Public Oyster Seed Grounds may be opened on the Wednesday following Labor Day, which in 1997 is September 3, and

WHEREAS, the oyster resources on the "Public Oyster Seed Grounds and Oyster Seed Reservation" have been surveyed and the available supply and size variation has been determined, and

WHEREAS, Act #46 of the 1992 Legislative Session changed R.S. 56:433B to mandate a sacking only area on the Public Grounds east of the Mississippi River inclusive of Plaquemines and St. Bernard Parishes,

THEREFORE BE IT RESOLVED, that the Louisiana Public Oyster Seed Grounds not currently under lease, Bay Gardene, Hackberry Bay, and Sister Lake Oyster Seed Reservations, will open one-half hour before sunrise on September 3, 1997, and

BE IT FURTHER RESOLVED, that the Bay Junop Oyster Seed Reservation will remain closed for the 1997/98 oyster season, and

BE IT FURTHER RESOLVED, that the sacking only area of the public grounds is generally Lake Fortuna and Lake Machias to a line from Mozambique Pt. To Pt. Gardner to Grace Pt. at the Mississippi River Gulf Outlet, and that this sacking only area will open one-half hour before sunrise on September 3, 1997, and

BE IT FURTHER RESOLVED, that the Secretary of the Department of Wildlife and Fisheries is authorized to take emergency action if necessary, to close areas if oyster mortalities are occurring, or to delay the season or close areas where significant spat catch has occurred with good probability of survival, or where it is found that there are excessive amounts of shell in seed oyster loads, and

BE IT FURTHER RESOLVED, that the Secretary will also have the authority to take emergency action to reopen areas previously closed if the threat to the resource has ended, and

BE IT FURTHER RESOLVED, that the season for Calcasieu and Sabine Lake tonging areas will open one-half hour before sunrise on October 16, 1997 and remain open until one-half hour after sunset on April 30, 1998, and

BE IT FURTHER RESOLVED, that the notice of any opening, delaying or closing of a season will be made by public notice at least 72 hours prior to such action.

---

Daniel Babin  
Chairman, Louisiana Wildlife and  
Fisheries Commission

---

James H. Jenkins, Jr.  
Secretary, Louisiana Department  
of Wildlife and Fisheries

RESOLUTION

Managerial Adjustment to the Remaining Portion of the 96/97  
Oyster Season on the Public Grounds

Adopted by the  
Louisiana Wildlife and Fisheries Commission  
Louisiana Department of Wildlife and Fisheries

January 9, 1997

- WHEREAS, R.S. 56:433 provides that the Public Oyster Seed Grounds may be opened on the Wednesday following Labor Day which in 1996 was September 4, and
- WHEREAS, the oyster resources on the "Public Oyster Seed Grounds and Oyster Seed Reservations" were surveyed and the available supply and size variation has been determined, and
- WHEREAS, the Wildlife and Fisheries Commission established the 96/97 season on the "Louisiana Public Oyster Seed Grounds and the Sister Lake, Hackberry Bay and Bay Gardene Oyster Seed Reservations" not currently under lease to open one-half hour before sunrise on September 4, 1996, and established the season in Calcasieu Lake, and
- WHEREAS, these areas are scheduled to close on April 1, 1997, and
- WHEREAS, there are provisions under R.S. 56:433 B(1) for extensions through May 15th of each season after considering the recommendations of the Oyster Task Force, and R.S. 56:433 E allows for adjustments to the season, and
- WHEREAS, R.S. 56:6(25) (a) allows the Commission, through its Secretary, to set seasons, times and places, based on biological and technical data for all fish for the purposes of management of fishery species for the maximum continuing social and economic benefit to the State without over fishing, and
- WHEREAS, the Louisiana Oyster Task Force members were presented with these recommendations at the December 12, 1996 meeting and voted in favor of the recommendation, now
- THEREFORE, BE IT RESOLVED, that the Sister Lake Oyster Seed Reservation shall close effective at 5 p.m. February 1, 1997 and remain closed for the remainder of the 96/97

public oyster season; and

BE IT FURTHER RESOLVED, that an area on the Breton Sound Public Oyster Seed Ground, Plaquemine Parish, inside a line running from the marker at Bayou Terre Boeufs, south to Snake Island, then to Lonesome Island, to Bell Island, south to the land mass on the south side of Bay Crabe, including the public grounds in Bay Gardene, Bay Crabe shall close at 5 p.m. February 1, 1997 and remain closed for the remainder of the season, and

BE IT FURTHER RESOLVED, that the open season on all of the remaining portions of the public grounds with the exception of Calcasieu Lake public tonging reef shall be extended to April 30, 1997 at 5 p.m.

BE IT FURTHER RESOLVED, that the Secretary of the Department of Wildlife and Fisheries is authorized to take emergency action, if necessary, to close areas if oyster mortalities are occurring or to delay the season or close areas where significant spat catch has occurred with good probability of survival, or where it is found that there are excessive amounts of shell in seed oyster loads, and

BE IT FURTHER RESOLVED, that the Secretary will also have the authority to take emergency action to reopen areas previously closed if the threat to the resource has ended.

---

Glynn Carver, Chairman  
La. Wildlife & Fisheries  
Commission

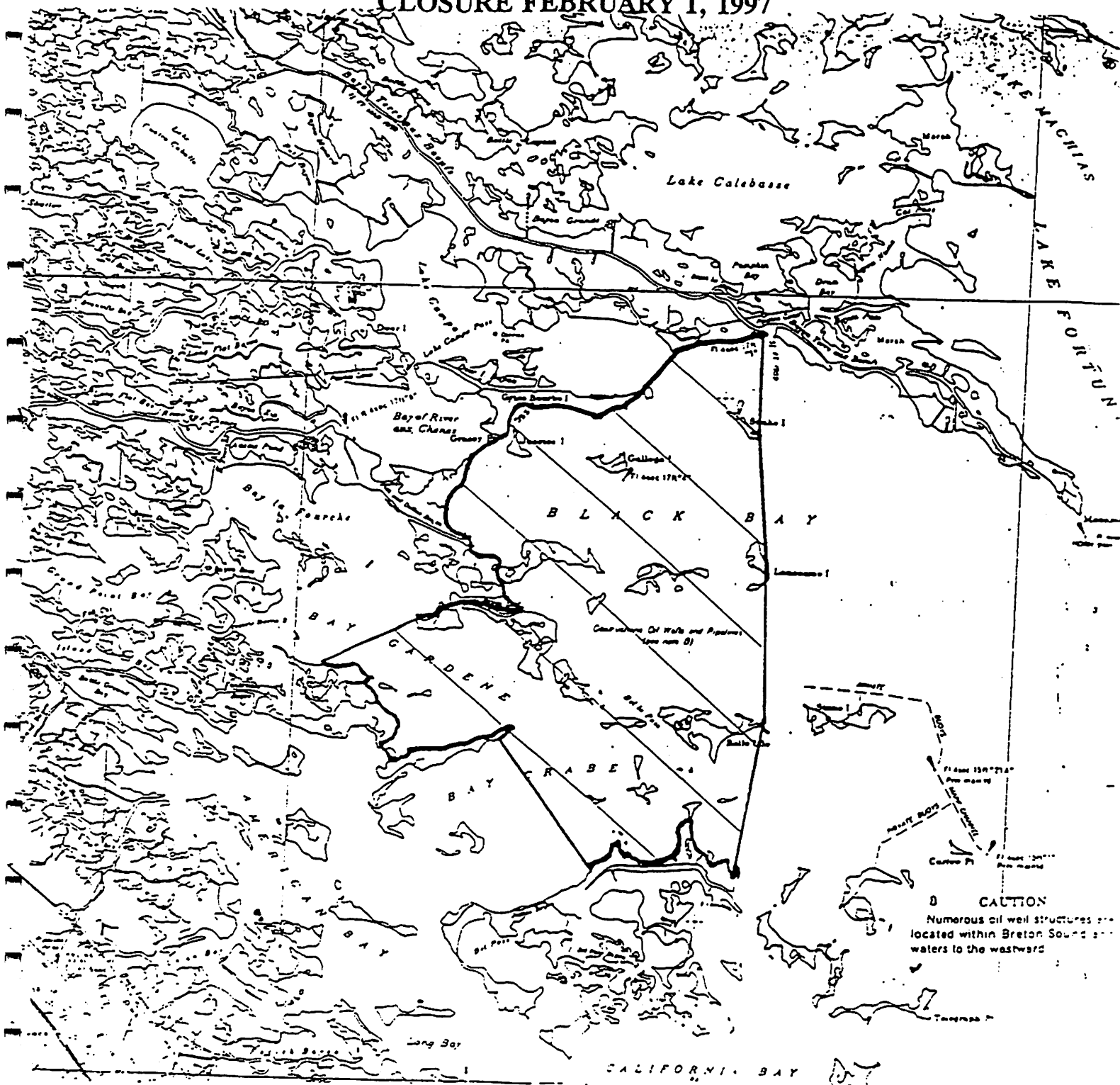
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James H. Jenkins, Jr., Secretary  
La. Department of Wildlife and  
Fisheries

\* As per 1/9/97 Commission mtg tapes, much of east side was closed early in season due to health closure, so Ron wanted to extend season from April 1 to April 30. However, he wanted to keep this area closed to preserve it for the 97/98 season.

**MANAGERIAL ADJUSTMENT  
TO THE REMAINING PORTION OF THE 96/97 OYSTER SEASON  
ON THE  
PUBLIC GROUNDS**

**THE BRETON SOUND PUBLIC GROUND  
CLOSURE FEBRUARY 1, 1997**



Louisiana Department of Wildlife and Fisheries

# NEWS RELEASE

James H. Jenkins Jr.  
Secretary



CONTACT  
504/765-2923

96-209

9/11/96

## OYSTER SEASON IN PART OF BRETON SOUND CLOSES SUNDAY, SEPT. 15

The harvest season for oysters will close in part of Breton Sound one-half hour after sunset on Sunday, Sept. 15, 1996.

Department of Wildlife and Fisheries Secretary James H. Jenkins Jr. announced the closure today, saying that oysters on some areas of the public oyster seed grounds are stressed due to a combination of high temperatures and salinities and some mortalities are occurring. The closure is necessary to protect the resource.

The area includes the outside edges of the land mass areas in Breton Sound (Plaquemines Parish); eastward of a line running from California Point to Pelican Point to Telegraph Point to the microwave towers on Curfew Point and Stone Island to Mozambique Point. (See map.)

The area is scheduled to re-open one-half hour before sunrise Nov. 1, 1996, after water temperatures have improved.

-30-

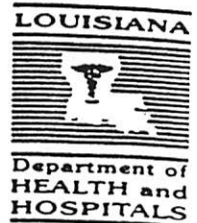
EDITORS: For more information contact Rex Dugas at 504/568-5678.





M. J. "Mike" Foster, Jr.  
GOVERNOR

STATE OF LOUISIANA  
DEPARTMENT OF HEALTH AND HOSPITALS



Bobby P. Jindal  
SECRETARY

REOPENING OF  
MOLLUSCAN SHELLFISH WATERS IN LOUISIANA

Pursuant to the provisions of LSA R.S. 40:5.3, as amended and re-enacted by Act 1 of the First Regular Legislative Session of 1988, the emergency order of reclassification of molluscan shellfish waters in Louisiana dated November 13, 1996, is amended as follows:

Adjusted shellfish growing areas, as indicated by the hashed areas on the attached map regarding the biotoxin emergency closure dated November 13, 1996, will remain closed to the harvest of all molluscan shellfish until further notice.

Shellfish growing areas which were closed by the biotoxin emergency closure dated November 13, 1996, and not included in the hashed area on the attached map, will revert to their current seasonal reclassification status.

This order will supersede the current November, 1996 - February, 1997, seasonal reclassification line and the March - April, 1997, reclassification line and all other seasonal reclassification lines until rescinded.

This order is effective official sunrise, Friday, February 28, 1997.

So ordered this 28th day of February, 1997.

*Louis Trachtman, M.D., M.P.H.*

LOUIS TRACHTMAN, M.D., M.P.H.  
Assistant State Health Officer  
Office of Public Health

*February 26, 1997*

Date

*Bobby P. Jindal*

BOBBY P. JINDAL  
Secretary  
Department of Health and Hospitals

*2/26/97*

Date

Attachment: map

LOUISIANA - MISSISSIPPI STATE LINE

CLOSED

MISSISSIPPI SOUND

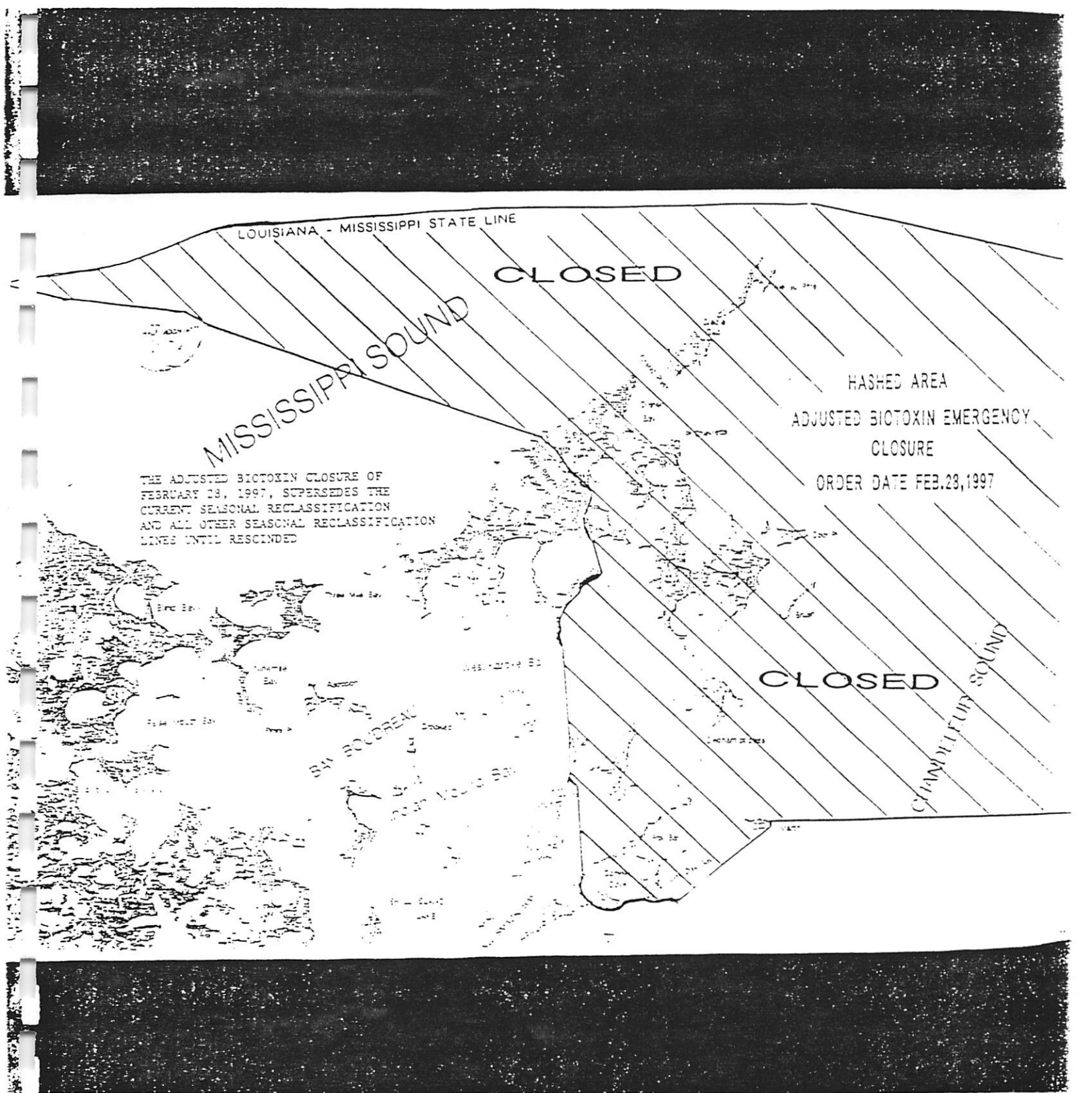
THE ADJUSTED BIOTOXIN CLOSURE OF  
FEBRUARY 23, 1997, SUPERSEDES THE  
CURRENT SEASONAL RECLASSIFICATION  
AND ALL OTHER SEASONAL RECLASSIFICATION  
LINES UNTIL RESCINDED

HASHED AREA  
ADJUSTED BIOTOXIN EMERGENCY  
CLOSURE  
ORDER DATE FEB.23,1997

CLOSED

CHANDLER SOUND

SAN BOUDREAU



REOPENING OF  
MOLLUSCAN SHELLFISH WATERS IN LOUISIANA

Pursuant to the provisions of LSA 40:5.3, as amended and re-enacted by Act 1 of the First Regular Legislative Session of 1988 and R.S. 40:5, the Emergency Closure Order of molluscan shellfish (oysters, clams, mussels) growing waters designated in Basins 04 and 09, to include all growing areas east of the Mississippi River to the Louisiana-Mississippi Stateline, dated October 8, 1996, is hereby rescinded.

The effective date of this order is official sunrise Wednesday, October 16, 1996.

So Ordered this 16th day of October, 1996.

Louis Trachtman, M.D.  
LOUIS TRACHTMAN, M.D.  
Assistant State Health Officer  
Office of Public Health

October 16, 1996  
Date

EMERGENCY CLOSURE OF  
MOLLUSCAN SHELLFISH WATERS IN LOUISIANA

Pursuant to the provisions of LSA R.S. 40:5.3, as amended and re-enacted by Act 1 of the First Regular Legislative Session of 1988, all growing areas east of the Mississippi River to the Louisiana-Mississippi Stateline, Basins 04 and 09, are hereby "CLOSED" to the harvest of molluscan shellfish until further notice.

This emergency closure is being taken due to recent extensive flooding of coastal areas.

This order is effective official sunrise, Tuesday, October 3, 1996, until further notice.

Opening of these shellfish harvest areas will be conducted as soon as it is determined environmental conditions are within the requirements specified by the National Shellfish Sanitation Program Manual of Operations, Part 1, Sanitation of Shellfish Growing Waters.

So Ordered this 8th day of October, 1996.

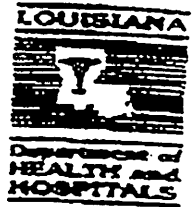
Louis Trachtman, M.D.  
LOUIS TRACHTMAN, M.D.  
Assistant State Health Officer

October 7, 1996  
DATE



M.J. "Mike" Foster, Jr.  
GOVERNOR

STATE OF LOUISIANA  
DEPARTMENT OF HEALTH AND HOSPITALS  
BUREAU OF COMMUNICATIONS & INQUIRY SERVICES



Bobby P. Jindal  
SECRETARY

# **STATE CLOSES S.E. LOUISIANA OYSTER WATERS**

## **HIGH WATER LEVELS CAN LEAD TO CONTAMINATION**

OCTOBER 7, 1996 / 4:00 P.M.

CONTACT: RUSTY JABOUR, 504-342-1532

Extensive storm-related flooding of coastal areas has led Louisiana's health officials to announce the precautionary closing at sunrise tomorrow (Tuesday, Oct. 8) of shellfish-growing waters located from the east bank of the Mississippi River to the Louisiana-Mississippi state line.

"We are taking these precautionary steps to ensure the continued quality of Louisiana oysters that go to market and to protect public health," said Dr. Eric Baumgartner, state health officer of the Department of Health and Hospitals, Office of Public Health.

The closure will remain in effect until further notice, said Dr. Baumgartner. DHH issued the emergency order this afternoon to close all shellfish harvesting activity in the area.

Dr. Baumgartner said flooding threatens oyster harvests because it can lead to contamination by a number of organisms which can cause diseases.

"The state will reopen these waters to shellfish harvesting when it determines the growing waters are in compliance with the standards of the National Shellfish Sanitation Program," Dr. Baumgartner said.

He said oyster harvesters are being advised immediately about the closures, and enforcement agents will patrol the waters continuously beginning tomorrow at sunrise.

Also, state health officials will test the waters for contamination regularly, and the closure will be lifted when officials are satisfied that the potential for contamination is not present.

Persons who want additional information should call the Oyster Water Monitoring Program in New Orleans at 504-896-1378.



STATE OF LOUISIANA  
DEPARTMENT OF HEALTH AND HOSPITALS



M. J. "Mike" Foster, Jr.  
GOVERNOR

Bobby P. Jindal  
SECRETARY

EMERGENCY CLOSURE OF  
MOLLUSCAN SHELLFISH WATERS IN LOUISIANA

Pursuant to the provisions of LSA R.S. 40:5.3, as amended and re-enacted by Act 1 of the First Regular Legislative Session of 1988, all molluscan shellfish growing areas between the Louisiana-Mississippi state line and the Mississippi River Gulf Outlet (MRGO) in Basins 04 and 09 are hereby **CLOSED** to the harvest of molluscan shellfish until further notice.

This emergency is being taken due to identification of "Red Tide" (*Gymnodinium breve*) in these growing waters.

This order is effective **IMMEDIATELY**.

Opening of these shellfish harvest areas will be conducted as soon as it is determined environmental conditions are within the requirements specified by the National Shellfish Sanitation Program Manual of Operations, Part 1, Sanitation of Shellfish Growing Waters.

So ordered this 13th day of November, 1996.

*Louis Trachtman, M.D.*  
LOUIS TRACHTMAN, M.D.  
Assistant State Health Officer  
Department of Health and Hospitals

11/13/96  
Date

Post-It™ brand fax transmittal memo 7671		# of pages » 1
To <i>Forest T.</i>	From <i>Ron D.</i>	
Co.	Co.	
Dept.	Phone #	
Fax #	Fax #	

EMERGENCY ORDER OF RECLASSIFICATION OF  
MOLLUSCAN SHELLFISH WATERS IN LOUISIANA

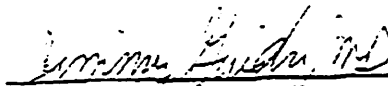
Pursuant to the provisions of LSA - R.S. 40:5.3, as amended and re-enacted by Act 1 of the First Regular Legislative Session of 1988, all growing waters identified on the attached map in Basin 04 to include all portions of Black Bay, Lake Machias, Lake Fortuna, California Bay, Bay Cade, Bay Cardene, American Bay, and Bay La Fourche are hereby closed to the harvest of molluscan shellfish until further notice.

This emergency closure is being taken as a precautionary measure and supersedes the seasonal reclassification orders for this area.

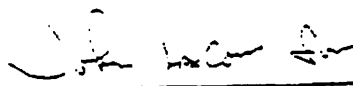
This order is effective immediately.

Reopening of these molluscan shellfish growing areas will be conducted as soon as it is determined environmental conditions are within the requirements specified by the National Shellfish Sanitation Program, Manual of Operations, Part 1, Sanitation of Shellfish Growing Areas.

So Ordered this 3rd day of January, 1997.

  
JIMMY GUIDRY, M.D.  
Assistant Secretary, Office of Public Health  
State Health Officer

1/3/97  
Date

  
BOBBY P. JINDAL  
Secretary  
Department of Health and Hospitals

1-3-97  
Date

Attachment: map

CLOSED

NOV-FEB-96-97-LINE

OPEN

CLOSED

OPEN

CLOSED

OPEN

OPEN

CLOSED

NOV-FEB-96-97-LINE

Bay of ...

Black Bay

HASHED AREA  
EMERGENCY CLOSURE  
ORDER DATE JUL 5, 1997

BRETON

SOUND

CLOSED

CLOSED

ORDER DATE NOV 13 1992

MANAGEMENT





M. J. "Mike" Foster, Jr.  
GOVERNOR

STATE OF LOUISIANA  
DEPARTMENT OF HEALTH AND HOSPITALS



RE-OPENING OF  
MOLLUSCAN SHELLFISH WATERS IN LOUISIANA

Pursuant to the provisions of LSA - R.S. 40:5.3, as amended and re-enacted by Act 1 of the First Regular Legislative Session of 1988, the emergency order of reclassification of molluscan shellfish waters in Louisiana dated January 3, 1997 is hereby rescinded. Growing waters affected by this closure to include all or portions of Bay Gardene, Bay Crabe, California Bay, Black Bay, Lake Machais, American Bay, Bay La Fourche, and Lake Fortuna will revert to their current seasonal classification status effective official sunrise, January 23, 1997.

This order is effective official sunrise, January 23, 1997

So Ordered this 17th day of January, 1997.

*Jimmy Guidry MD*  
JIMMY GUIDRY, M.D.  
Assistant Secretary, Office of Public Health  
State Health Officer

1/17/97  
Date

*John LeCom for*  
BOBBY P. JINDAL  
Secretary  
Department of Health and Hospitals

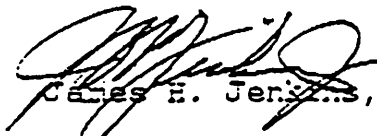
1-17-97  
Date

## DECLARATION OF EMERGENCY

### Department of Wildlife and Fisheries Wildlife and Fisheries Commission

In accordance with the emergency provisions of the Administrative Procedure Act, R.S. 49:953(B) and 967, and under the authority of R.S. 56:433 and 56:435.1, and the authority given the Secretary in the August 8th Commission action; notice is hereby given that the Secretary of the Department of Wildlife and Fisheries hereby declares:

That oysters on some areas of the public oyster seed grounds are stressed due to a combination of high temperatures and salinities and some mortalities are occurring. The Secretary is closing an area east of the Mississippi River one-half hour after sunset Sunday, September 15, 1996. The area includes the outside edges of the land mass areas in Breton Sound, Plaquemines Parish, eastward of a line running from California Point to Pelican Island to Telegraph Point to the Microwave towers on Curfew Point and Stone Island then to Mozambique Point. The area will reopen one-half hour before sunrise November 1, 1996 when water temperatures will have improved.

  
James H. Jenkins, Jr.  
Secretary